Order No. MD0403084C2

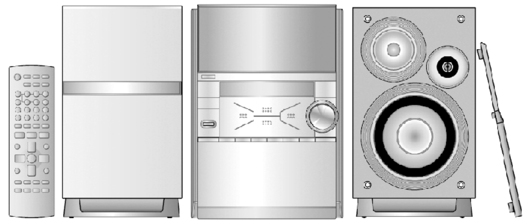
Service Manual

DVD Stereo System

SA-PM39DE / SA-PM39DEB / SA-PM39DEG

Colour

(S) ... Silver Type


Remote Control Transmitter
SB-PM39
SA-PM39D
SB-PM39

SPECIFICATIONS

Specification

■ Amplifier Section

RMS Output Power Stereo mode (Both channel driven)	
10% Total harmonic distortion	
1 kHz, (Low channel)	35 W per channel (6 Ω)
8 kHz, (High channel)	35 W per channel (6 Ω)
Total RMS Stereo mode power	140 W
DIN Output Power Stereo mode (Both channel driven)	
1% Total harmonic distortion	
1 kHz, (Low channel)	25 W per channel (6 Ω)
8 kHz, (High channel)	25 W per channel (6 Ω)
Total DIN Stereo mode power	100 W

■ FM Tuner Section

Frequency range	87.50 - 108.00 MHz (50 kHz steps)
Sensitivity	1.6 μV (IHF)
S/N 26 dB	1.5 μV
Antenna terminal(s)	75 Ω (unbalanced)
Preset stations	15

■ AM Tuner Section

Frequency range	522 - 1629 kHz (9 kHz steps)
Sensitivity	
S/N 20 dB (at 999 kHz)	560 μV/m
Preset stations	15
Phone jack	
Terminal	Stereo 3.5 mm jack

■ Cassette Deck Section

Track system	4 track, 2 channel
Heads	
Record/playback	Solid permalloy head
Erasure	Double gap ferrite head
Motor	DC servo motor
Recording system	AC bias 100 kHz AC erase 100 kHz
Tape speed	4.8 cm/s
Overall frequency response (+3 to -6 dB at Deck Out)	
Normal (Type I)	35 Hz - 14 kHz
S/N ratio	50 dB (A weighted)
Wow and flutter	0.18% (WRMS)
Fast forward and rewind times	Approx. 120 seconds with C-60 cassette tape

■ Disc Section

Disc played [8cm or 12 cm]

1. DVD-RAM (DVD-VR compatible, JPEG formatted disc)
2. DVD-Audio
3. DVD-Video
4. DVD-R (DVD-Video compatible)
5. CD-Audio (CD-DA)
6. Video CD

7. SVCD (Conforming to IEC62107)

8. CD-R/CD-RW
(CD-DA, Video-CD, SVCD, MP3, WMA, JPEG formatted disc)

9. MP3/WMA*
-Compatible compression rate:
MP3: between 32 kbps and 320 kbps
WMA: between 48 kbps and 320 kbps

10. JPEG*
-Exif Ver 2.1 JPEG Baseline files
-Picture resolution:
between 320 x 240 and 6144 x 4096 pixels
(Sub sampling is 4:2:2 or 4:2:0)

11. HighMAT Level 2 (Audio and Image)

*** The total combined maximum number of recognizable audio and picture contents and groups: 4000 audio and picture contents and 400 groups.**

Video system	**PAL625/50, PAL525/60, NTSC**
Composite video output	
Output level	**1 Vp-p (75 Ω)**
Terminal	**Pin jack (1 system)**
S-Video output	
Y output level	**1 Vp-p (75 Ω)**
C output level	**0.3 Vp-p (75 Ω)(PAL)** **0.286 Vp-p (75 Ω)(NTSC)**
Terminal	**S terminal (1 system)**
RGB video output	
R output level	**0.7 Vp-p (75 Ω)**
G output level	**0.7 Vp-p (75 Ω)**
B output level	**0.7 Vp-p (75 Ω)**
Terminal	**SCART jack (1 system)**
Audio output	
Number of channels	**2**
Digital audio output	
Optical digital output	**Optical terminal**
Pick up	
Wavelength	
DVD	**662 nm**
CD	**785 nm**
Laser power	**CLASS 2/CLASS 3a**

■ General

Power supply	
For EB	**AC 230 - 240 V, 50 Hz**
For E/EG	**AC 230 V, 50 Hz**
Power consumption	**125 W**
Power consumption (standby mode)	**0.7 W**
Dimensions (W x H x D)	**174.6 x 251 x 376 mm**
Mass	**5.8 kg**
Operating temperature range	**+5°C to + 35°C (+41°F to + 95°F)**
Operating humidity range	**5% to 90% RH (no condensation)**

- **System**
- **System: SC-PM39D E-S**
  Music Center: SA-PM39D E-S
  Speaker: SB-PM39 EG-M
- **System: SC-PM39D EB-S**
  Music Center: SA-PM39D EB-S
  Speaker: SB-PM39 EG-M
- **System: SC-PM39D EG-S**
  Music Center: SA-PM39D EG-S
  Speaker: SB-PM39 EG-M

Notes:

1. **Specifications are subject to change without notice. / Mass and dimensions are approximate.**
2. **Total harmonic distortion is measured by the digital spectrum analyzer.**

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⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic

1. Caution for AC Mains Lead

(For “EB” area code model only.)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark or the BSI mark on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover, the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local dealer.

> **CAUTION!**
> IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OFF SAFELY.
> THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted, please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.

IMPORTANT
The wires in this mains lead are coloured in accordance with the following code:

Blue:	Neutral
Brown:	Live

As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.

The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL ⏚ OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

Before use
Remove the connector cover.

How to replace the fuse
The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.
Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.

Figure A

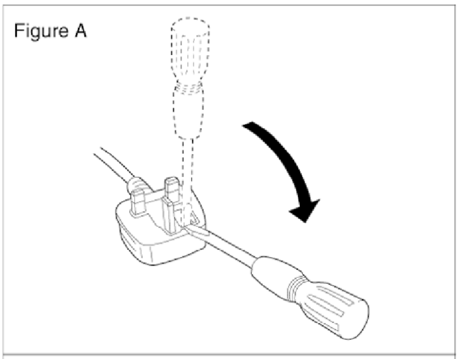
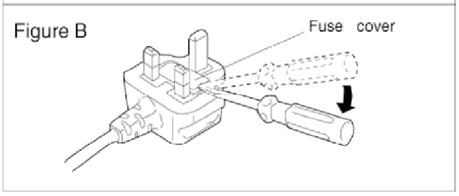


Figure B



2. Replace the fuse and close or attach the fuse cover.

Figure A

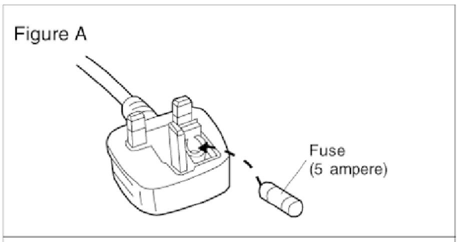
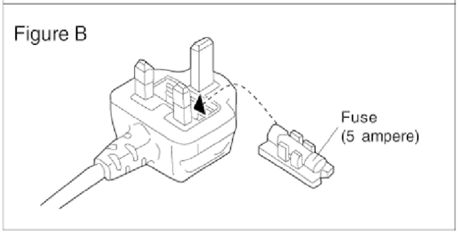


Figure B



2. Before Repair and Adjustment

Disconnect AC power, discharge Power Supply Capacitors C5802, C5803, C5804 and C5902 through a 10 Ω, 1 W resistor to ground. DO NOT SHORT-CIRCUIT DIRECTLY (with a screw driver blade, for instance), as this may destroy solid state devices.
After repairs are completed, restore power gradually using a variac, to avoid over current.
Current consumption at AC 230 V, 50 Hz in NO SIGNAL mode should be ~300 mA. (For E/EG only)
Current consumption at AC 230~240 V, 50 Hz in NO SIGNAL mode should be ~300 mA. (For EB only)

3. Protection Circuitry

The protection circuitry may have operated if either of the following conditions are noticed:

- No sound is heard when the power is turned on.
- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are
“shorted”, or if speaker systems with an impedance less than the indicated rated impedance of the amplifier are used.
If this occurs, follow the procedure outlines below:

1. **Turn off the power.**
2. **Determine the cause of the problem and correct it.**
3. **Turn on the power once again after one minute.**

Note :
When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

4. Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

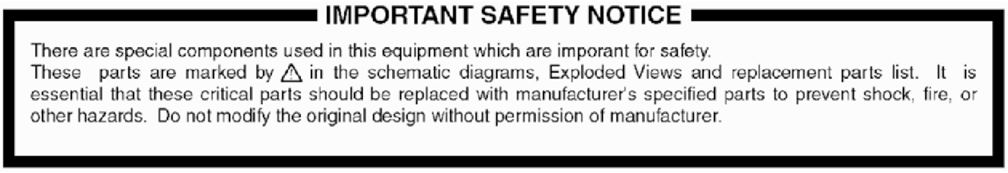
Some semiconductor (solid state) devices can be damaged easily by electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor “chip” components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. **Immediately before handling any semiconductor component or semiconductor-equiped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.**
2. **After removing an electrical assembly equiped with ES devices, place the assembly on a conductive surface such as aluminium foil, to prevent electrostatic charge build up or exposure of the assembly.**
3. **Use only a grounded-tip soldering iron to solder or unsolder ES devices.**
4. **Use only an anti-static solder remover device. Some solder removal devices not classified as “anti-static (ESD protected)” can generate electrical charge to damage ES devices.**
5. **Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.**

6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminium foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

   Caution

   Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize body motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).



IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are imporant for safety. These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

5. Handling the Lead-free Solder

5.1. About lead free solder (PbF)

Distinction of PbF P.C.B.:

P.C.B.s (manufactured) using lead free solder will have a PbF stamp on the P.C.B.

Caution:

- Pb free solder has a higher melting point than standard solder; Typically the melting point is 50 - 70°F (30 - 40°C) higher. Please use a high temperature soldering iron. In case of soldering iron with temperature control, please set it to 700 ± 20°F (370 ± 10°C).
- Pb free solder will tend to splash when heated too high (about 1100°F/600°C).
- When soldering or unsoldering, please completely remove all of the solder on the pins or solder area, and be sure to heat the soldering points with the Pb free solder until it melts enough.

6. Handling Precautions For Traverse Deck

The laser diode in the traverse deck (optical pickup) may break down due to potential difference caused by static electricity of clothes or human body. So, be careful of electrostatic breakdown during repair of the traverse deck (optical pickup).

- Handling of traverse deck (optical pickup)

1. **Do not subject the traverse deck (optical pickup) to static electricity as it is extremely sensitive to electrical shock.**
2. **To prevent the breakdown of the laser diode, an antistatic shorting pin is inserted into the flexible board (FFC board).**
3. **Take care not to apply excessive stress to the flexible board (FFC board). When removing or connecting the short pin, finish the job in as short time as possible.**
4. **Do not turn the variable resistor (laser power adjustment). It has already been adjusted.**

- Grounding for electrostatic breakdown prevention

1. **Human body grounding**
   Use the anti-static wrist strap to discharge the static electricity from your body.
2. **Work table grounding.**
   Put a conductive material (sheet) or steel sheet on the area where the traverse deck (optical pickup) is place, and ground the sheet.

Caution:

The static electricity of your clothes will not be grounded through the wrist strap. So, take care not to let your clothes touch the traverse deck (optical pickup).

Caution when replacing the Traverse Deck

The traverse deck has a short point shorted with solder to protect the laser diode against electrostatics breakdown. Be sure to remove the solder from the short point before making connections.

Figure No.6.1

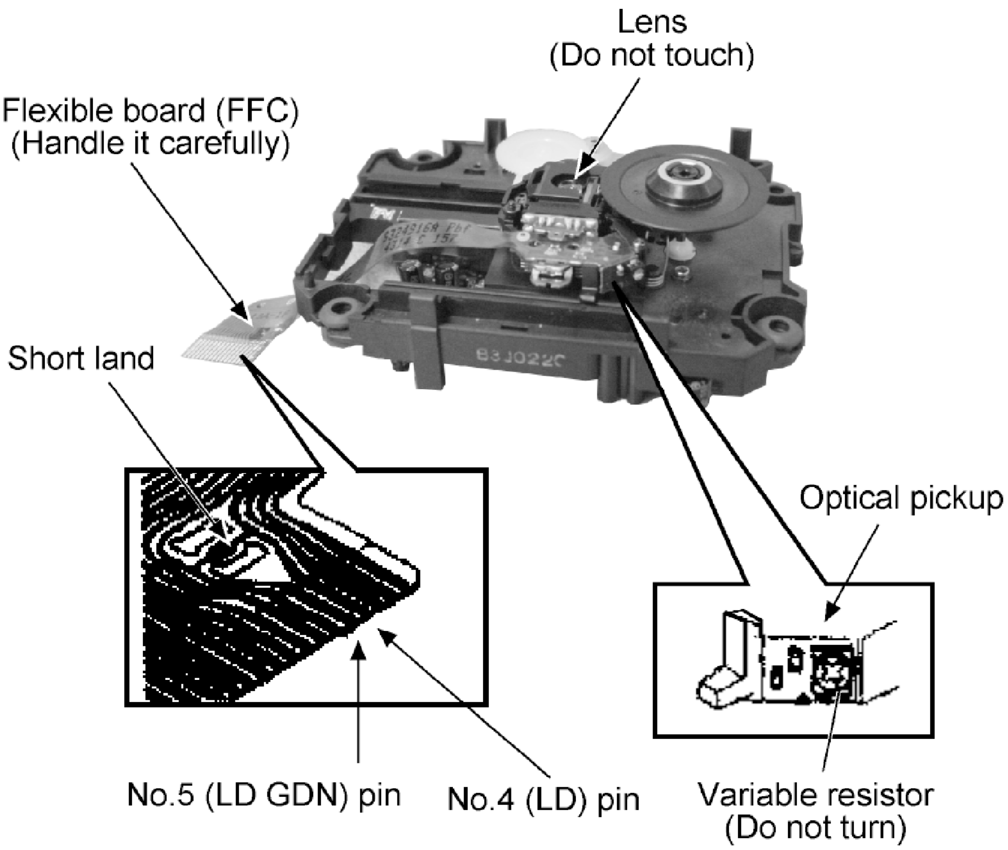
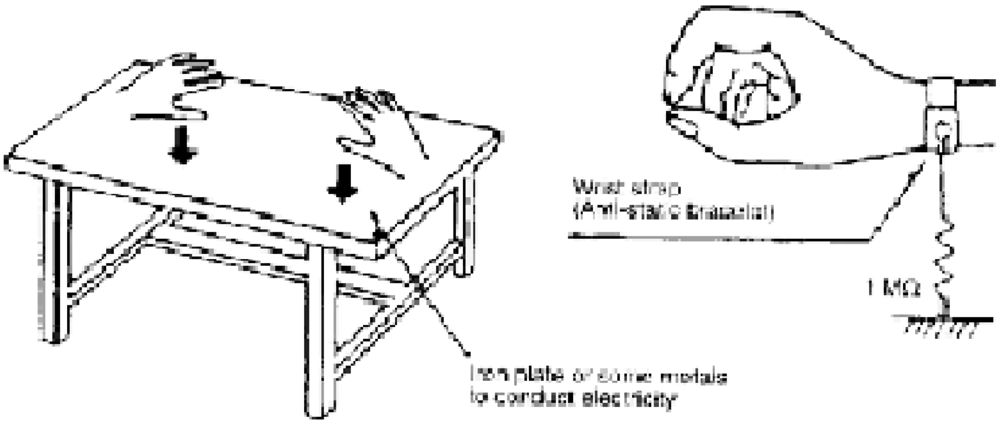

Lens
(Do not touch)
Flexible board (FFC)
(Handle it carefully)
Short land
Optical pickup
No.5 (LD GDN) pin
No.4 (LD) pin
Variable resistor
(Do not turn)

Figure No.6.2


Wrist strap
(Anti-static Bracelet)
1 MΩ
Iron plate or some metals
to conduct electricity

7. Precaution of Laser Diode

Caution :

This product utilizes a laser diode with the unit turned "ON", invisible laser radiation is emitted from the pick up lens. / Maximum output radiation power from pick up : 100 μ W/VDE / Laser radiation from pick up unit is safety level, but be sure the followings: Wavelength: 662nm(DVD)/785nm(CD).

1. Do not disassemble the optical pick up unit, since radiation from

exposed laser diode is dangerous.

2. **Do not adjust the variable resistor on the pick up unit. It was already adjusted.**
3. **Do not look at the focus lens using optical instruments.**
4. **Recommend not to look at pick up lens for a long time.**

CAUTION!

THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THO
SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

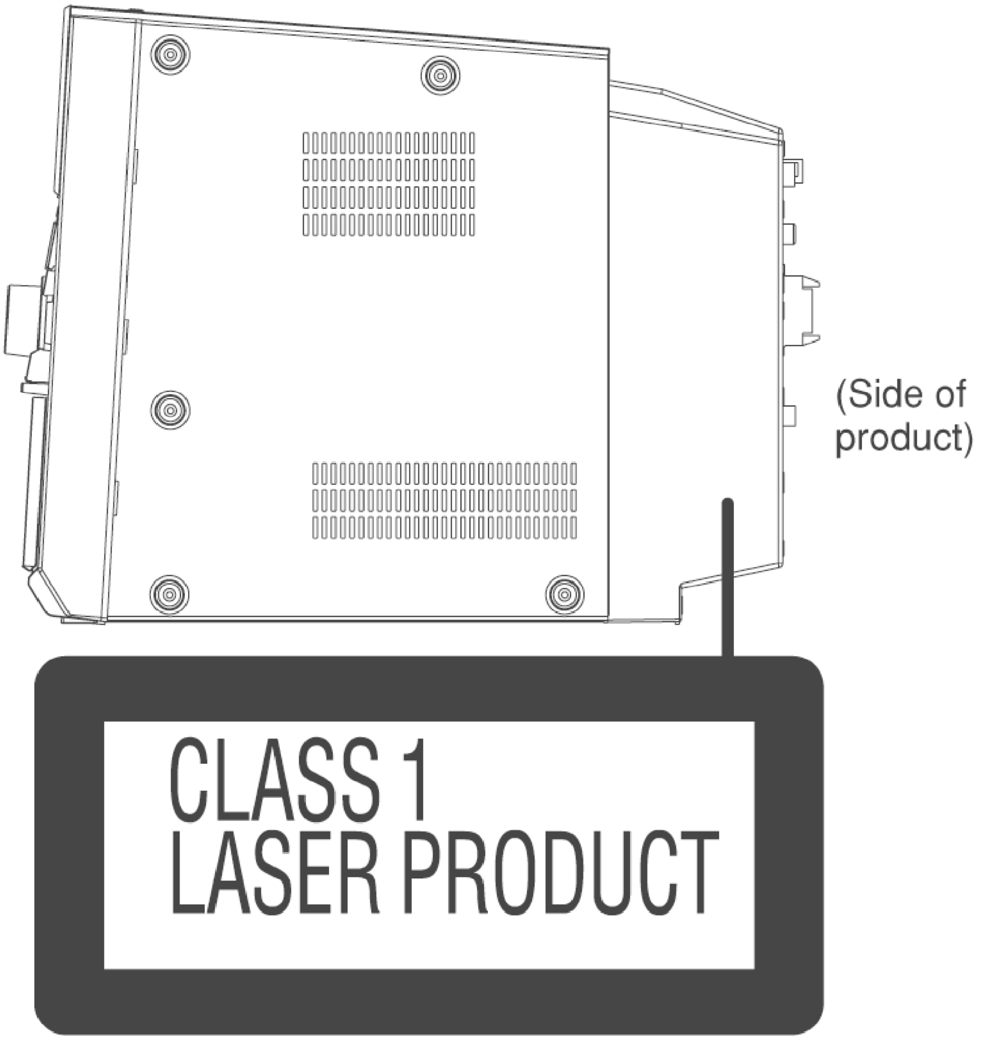
ACHTUNG :

Dieses Produkt enthält eine Laserdiode. Im eingeschalteten Zustand wird unsichtbare Laserstrahlung von der Lasereinheit abgestrahlt. / Wellenlänge : 662nm(DVD)/785nm(CD). / Maximale Strahlungsleistung der Lasereinheit :100 µ W/VDE / Die Strahlung an der Lasereinheit ist ungefährlich, wenn folgende Punkte beachtet werden:

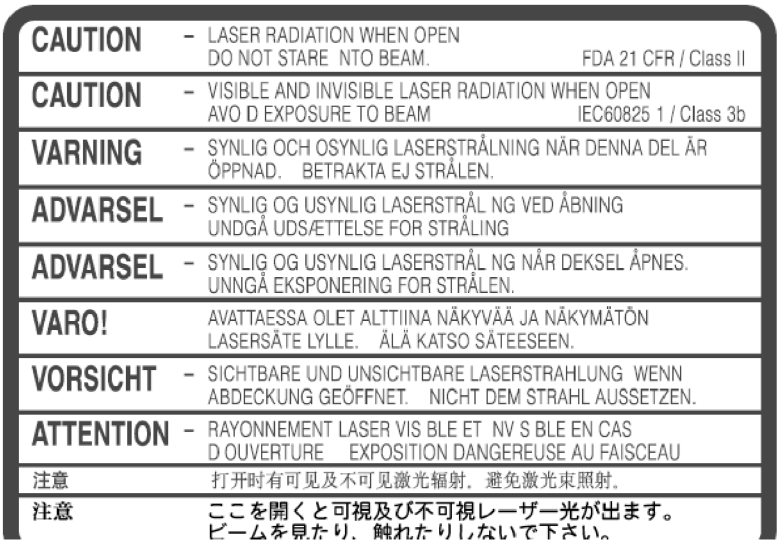
1. **Die Lasereinheit nicht zerlegen, da die Strahlung an der freigelegten Laserdiode gefährlich ist.**
2. **Den werkseitig justierten Einstellregler der Lasereinhit nicht verstellen.**
3. **Nicht mit optischen Instrumenten in die Fokussierlinse blicken.**
4. **Nicht über längere Zeit in die Fokussierlinse blicken.**

ADVARSEL: I dette a apparat anvendes laser.

■ **Use of Caution Labels**



LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT



CAUTION – LASER RADIATION WHEN OPEN
DO NOT STARE INTO BEAM. FDA 21 CFR / Class II

CAUTION – VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN
AVOID EXPOSURE TO BEAM IEC60825 1 / Class 3b

VARNING – SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR
ÖPPNAD. BETRAKTA EJ STRÅLEN.

ADVARSEL – SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING
UNDGÅ UDSÆTTELSE FOR STRÅLING

ADVARSEL – SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES.
UNNGÅ EKSPONERING FOR STRÅLEN.

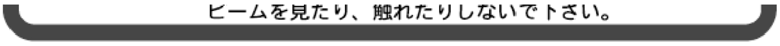
VARO! AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN
LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.

VORSICHT – SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG WENN
ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.

ATTENTION – RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS
D OUVERTURE EXPOSITION DANGEREUSE AU FAISCEAU

注意 打开时有可见及不可见激光辐射，避免激光束照射。

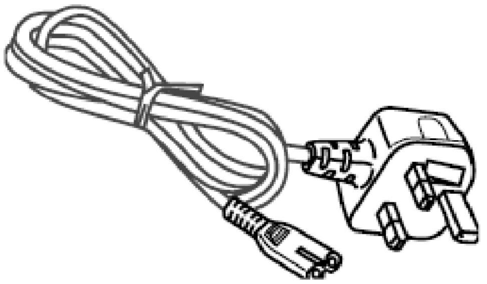
注意 ここを開くと可視及び不可視レーザー光が出ます。
ビームを見たり、触れたりしないで下さい。


ビームを見たり、触れたりしないでトさい。

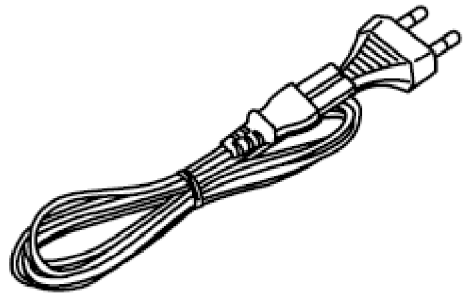
(Inside of product)
(Tuotteen sisällä)
(Produktets innside)

8. Accessories

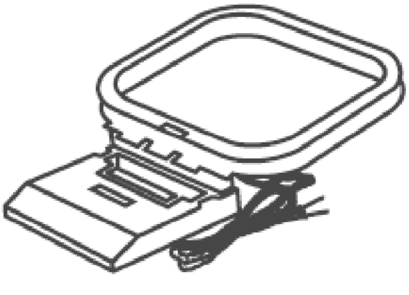
AC Main Lead (For EB only)



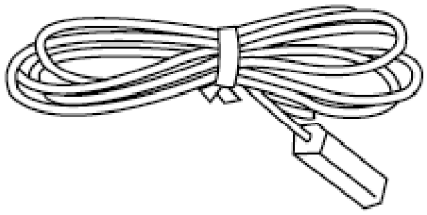
AC Main Lead (For E & EG only)



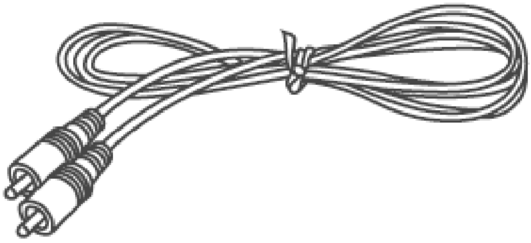
AM Loop Antenna



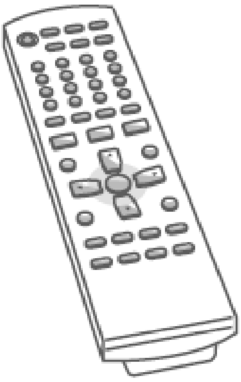
FM Indoor Antenna



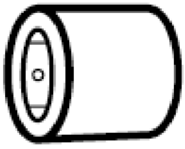
Video Cable



Remote Control Transmitter



Antenna plug adaptor (For EB only)



9. Operating Instructions

10. About HighMAT

10.1. What is HighMAT?

This word combines the abbreviations of Matsushita Electric Industrial Co. Ltd. and High Performance Media Access Technology, and is a trademark of Microsoft Corporation. The products with the HighMAT logo shown below are made according to the HighMAT standard. HighMAT is a format that allows users to save digital contents such as photographs, audio, and images on a CD. This gives consistency in the way of reading data when general consumer products (such as DVD players) and PCs are used, and thus, it is easy to operate for the user.

10.2. Why use HighMAT?

Up to now, there was no harmonized standard from playing digital content stored in CD-ROM formats (including CD-R) on consumer products like DVD players.Therefore, we used to have problems such as follow:

- There was no common play list or attached information on

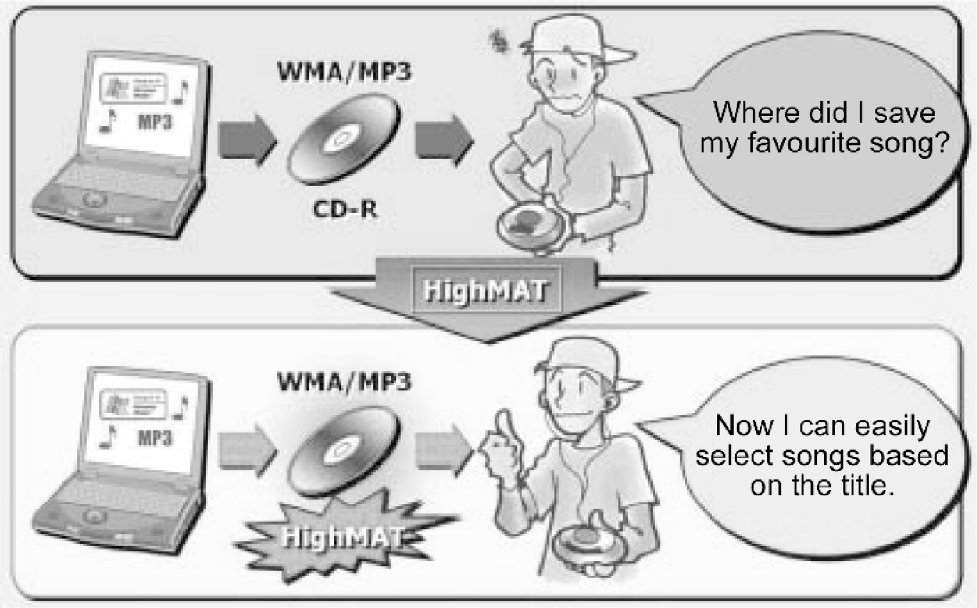
contents, which is called metadata.

- **The data compression method differed according to the equipment.**
- **As the number of CD-ROMs recorded increased retrieved the contents became more difficult.**
- **Because display and operation methods were different depending on the equipment, the play order of the content on the same disc could change.**

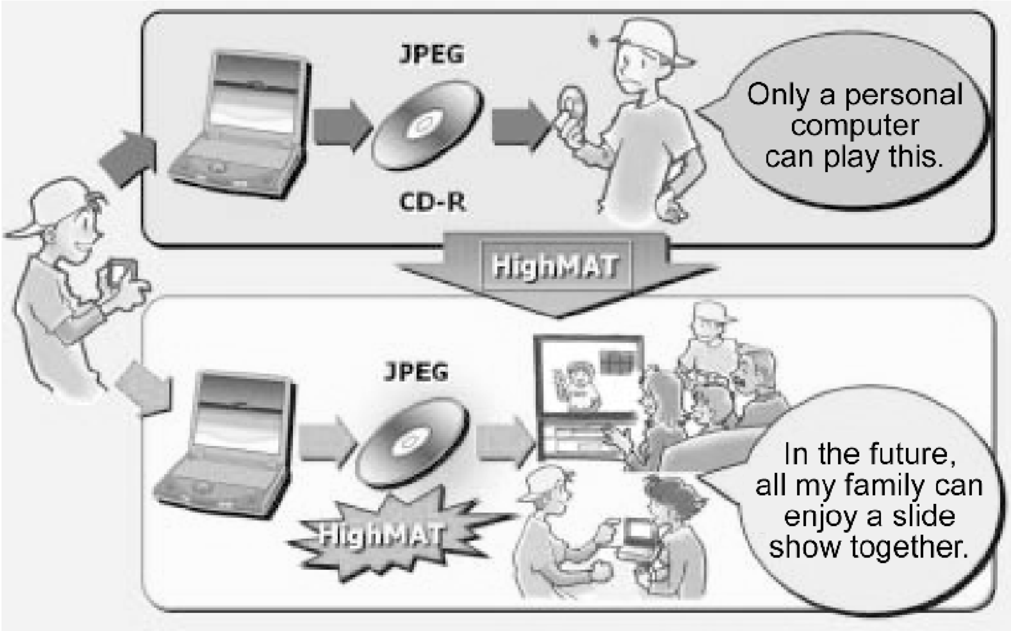
10.3. The advantages of using HighMAT

Applying the HighMAT standard will solve the following problems and will improve usability.

- **It will create a common user interface for both PC and consumer products.**


MP3
WMA/MP3
CD-R
Where did I save my favourite song?
HighMAT
MP3
WMA/MP3
HighMAT
Now I can easily select songs based on the title.

- **Regardless of the types of consumer products, such as DVD players, portable CD players, car stereos, and micro computers, a consistent way to pay for digital content will be created and it will make it easier to retrieve data.**

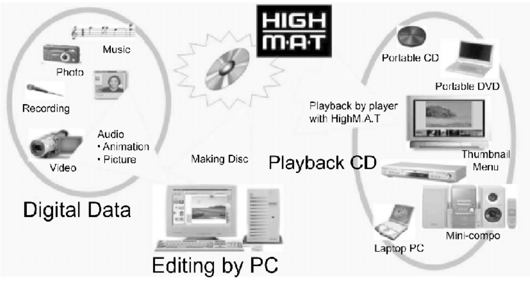

JPEG
CD-R
Only a personal computer can play this.
HighMAT
JPEG
HighMAT
In the future, all my family can enjoy a slide show together.

- You can also play digital content on the disc, which was created in accordance with the HighMAT format with a conventional CD-ROM player.

10.4. Outline of the HighMAT standard

1. Recording medium

- **CD-R/CD-RW**
- **Supports ISO 9660 Level Expanded Joliet**
- **For multiple session**


HIGH M·A·T
Music
Photo
Recording
Audio
• Animation
• Picture
Video
Digital Data
Making Disc
Editing by PC
Playback CD
Playback by player with HighM.A.T
Portable CD
Portable DVD
Thumbnail Menu
Laptop PC
Mini-compo

2. Support data format

- **Level 1 player: WMA, MP3 (MPEG-1 Audio Layer 3)**
- **Level 2 player: WMA, MP3 (MPEG-1 Audio Layer 3), JPEG**
- **Level 3 player: WMA, MP3 (MPEG-1 Audio Layer 3), JPEG, WMV, MPEG4 (optional)**

3. Limitation of data format

- WMA, MP3 (MPEG-1 Audio Layer 3) 64 kbps - 160.999 kbps, 44.1 KHz, stereo, fixed bit rate/ variable bit rate.
- WMA, V2 and above, excluding Lossless/Voice/Pro
- JPEG: Max 6M pixel, Maximum file size: 3 MB

4. Limitations regarding the number of files on the media, etc.

- Total number of audio files: Maximum 450
- Total number of still picture files: Maximum 999
- Total number of animation files: Maximum 200
- Total number of directories: Maximum 400
- Length of a file name: Maximum 108 characters (Unicode)
- Total number of play lists: Maximum 200
- Number of contents in the playlist: Maximum 900

5. Composition of HighMAT disc

- Menu: Classified for the navigation of the HighMAT digital contents. When menu selected, its submenu or the play list will be displayed.
- Play list: A list in which one or more digital contents are arranged in order
- Group: Sub-divided group of a play list.
- Digital Contents: Audio, still picture, and animation data.

11. Disassembly and Main Component Replacement Procedures.

"ATTENTION SERVICER"
Some chassis components maybe have sharp edges. Be careful when disassembling and servicing.

1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
2. For reassembly after operation checks or replacement, reverse the respective procedures. / Special reassembly procedures are described only when required.

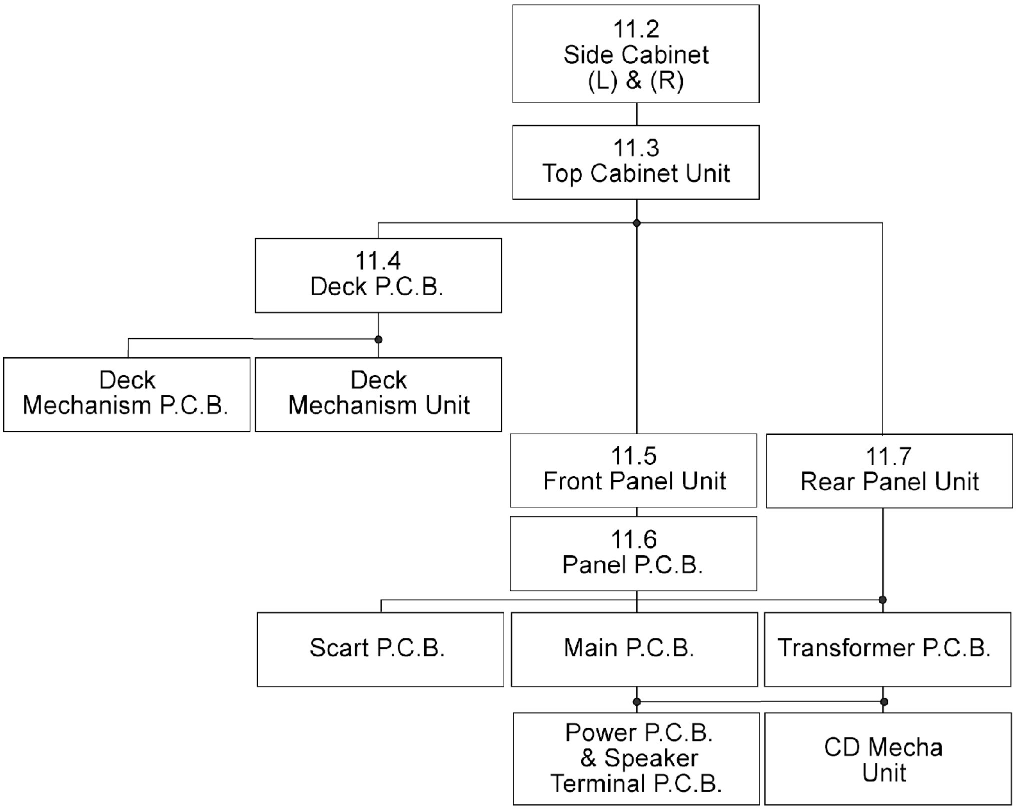
3. **Select items from the following index when checks or replacement are required.**
4. **Refer to the Parts No. on the page of “Main component Replacement Procedures”, if necessary.**

Warning:

This product uses a laser diode. Refer to “Precaution of Laser Diode”.

ADVARSEL: I dette a apparat anvendes laser.

11.1. Disassembly flow chart

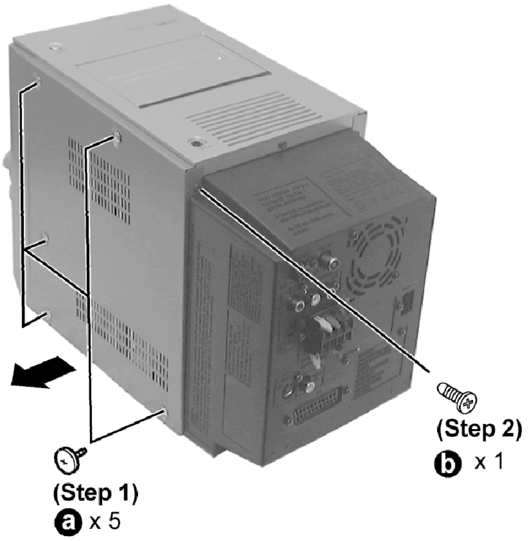

11.2
Side Cabinet
(L) & (R)
11.3
Top Cabinet Unit
11.4
Deck P.C.B.
Deck
Mechanism P.C.B.
Deck
Mechanism Unit
11.5
Front Panel Unit
11.7
Rear Panel Unit
11.6
Panel P.C.B.
Scart P.C.B.
Main P.C.B.
Transformer P.C.B.
Power P.C.B.
& Speaker
Terminal P.C.B.
CD Mecha
Unit

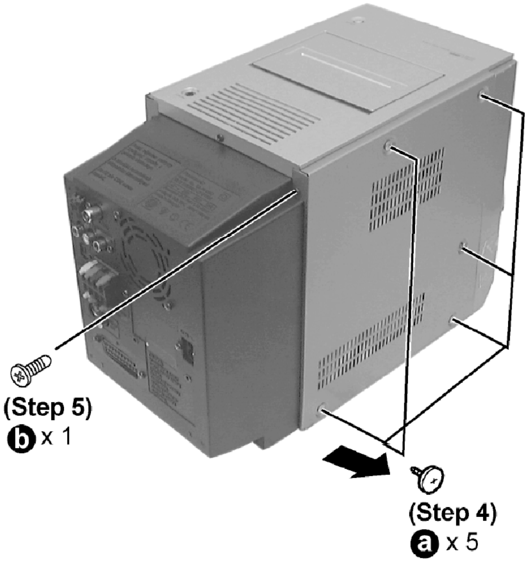
11.2. Disassembly of Side Panel (L) & (R)

Step 1 Remove 5 screws.

Step 2 Remove 1 screw.

Step 3 Remove the panel as arrow shown.


(Step 1)
a x 5
(Step 2)
b x 1


(Step 5)
b x 1
(Step 4)
a x 5

Step 4 Remove 5 screws .

Step 5 Remove 1 screw.

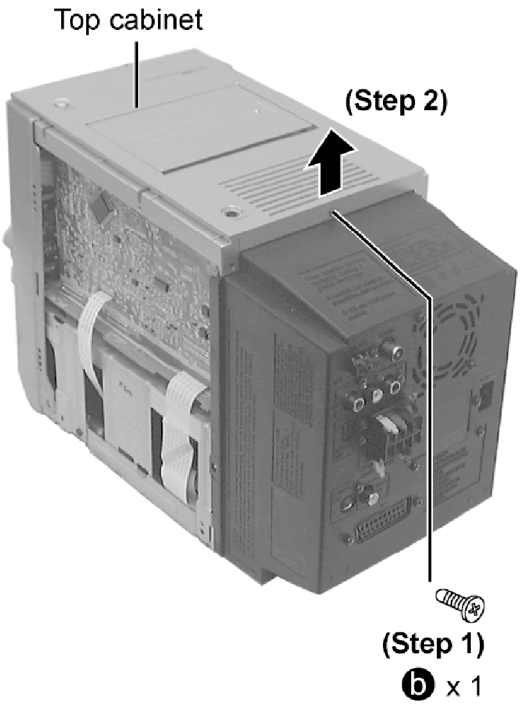
Step 6 Remove the panel as arrow shown.

11.3. Disassembly of Top Cabinet Unit

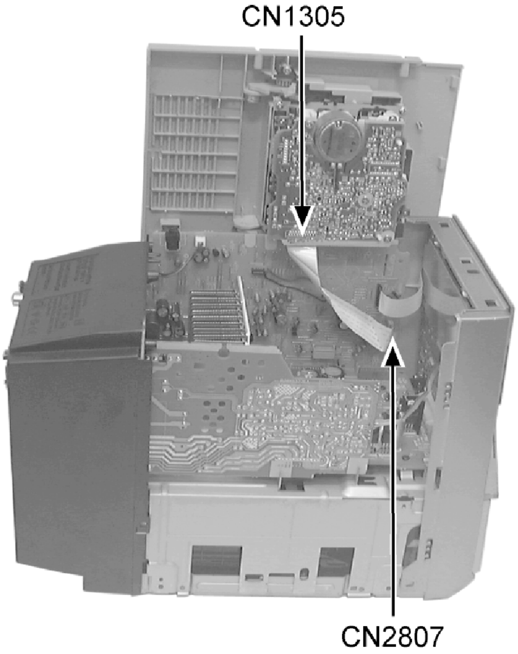
- Follow the (Step 1) - (Step 4) of Item 11.2

Step 1 Remove screw.

Step 2 Lift up the Top Cabinet unit, pull upward as arrow shown and flip Top Cabinet sideway.


Top cabinet
(Step 2)
(Step 1)
ⓑ x 1

Step 3 Disconnect FFC Board (CN1305).


CN1305
CN2807

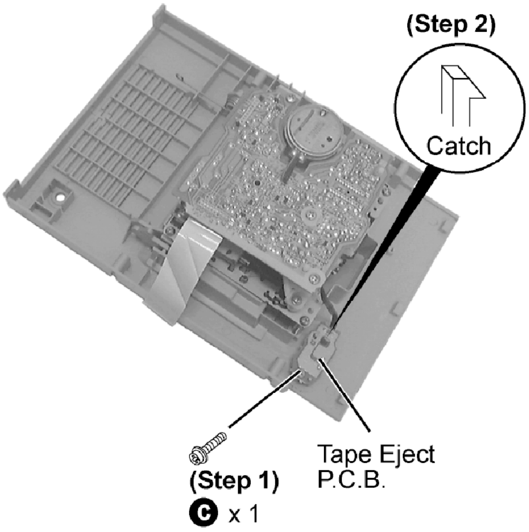
11.4. Disassembly of Deck Mechanism Unit and Tape Eject P.C.B.

- Follow the (Step 1) - (Step 4) of Item 11.2

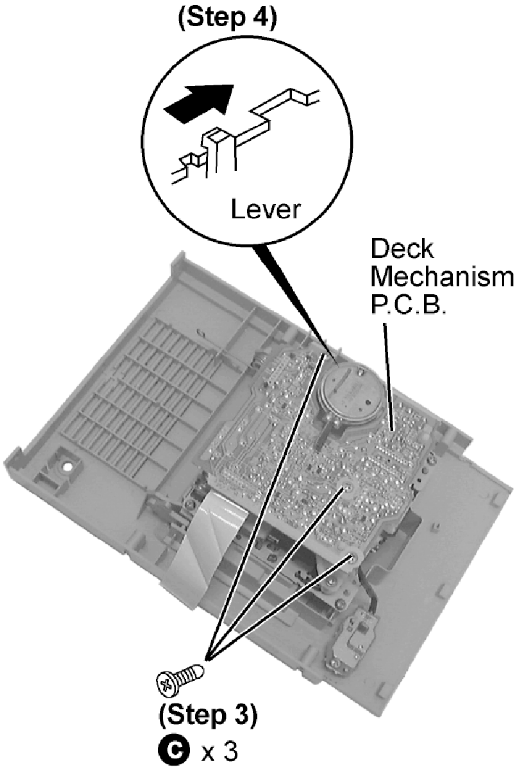
- Follow the (Step 1) - (Step 3) of Item 11.3

Step 1 Remove 1 screw.

Step 2 Release the catch.


(Step 2)
Catch
Tape Eject
P.C.B.
(Step 1)
C x 1

Step 3 Remove 3 screws.


(Step 4)
Lever
Deck
Mechanism
P.C.B.
(Step 3)
C x 3

Step 4 Press the lever to open the cassette cover.

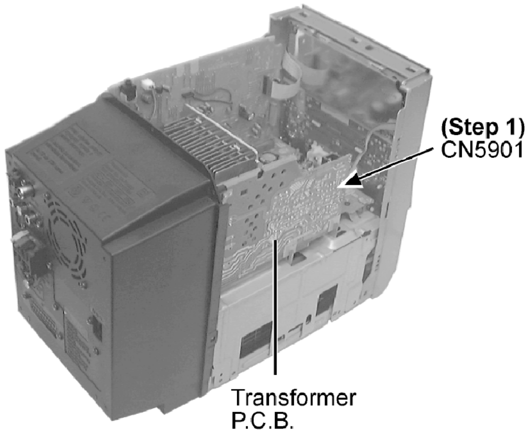
Step 5 Remove the cassette mechanism unit.

11.5. Disassembly of Front Panel Unit

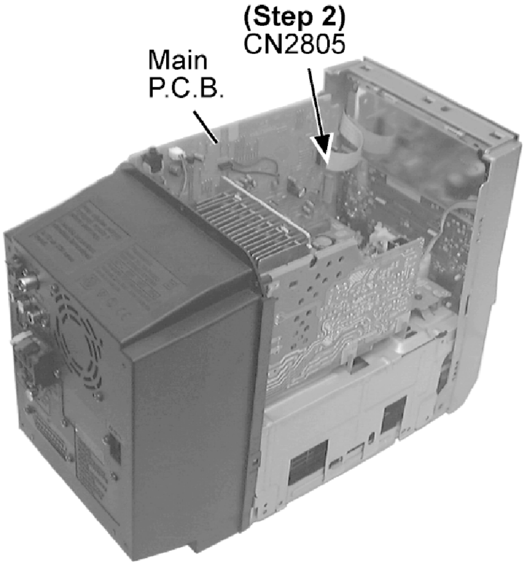
- Follow the (Step 1) - (Step 4) of Item 11.2

- Follow the (Step 1) - (Step 3) of Item 11.3

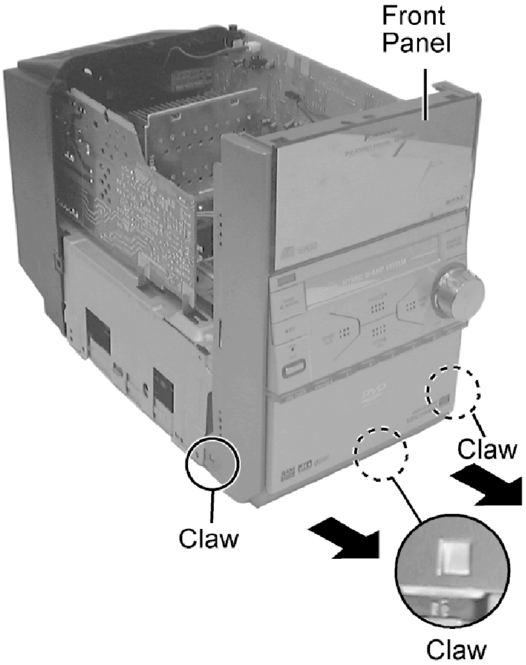
Step 1 Detach connector CN5901.


(Step 1)
CN5901
Transformer
P.C.B.

Step 2 Detach FFC board (CN2805).


(Step 2)
CN2805
Main
P.C.B.

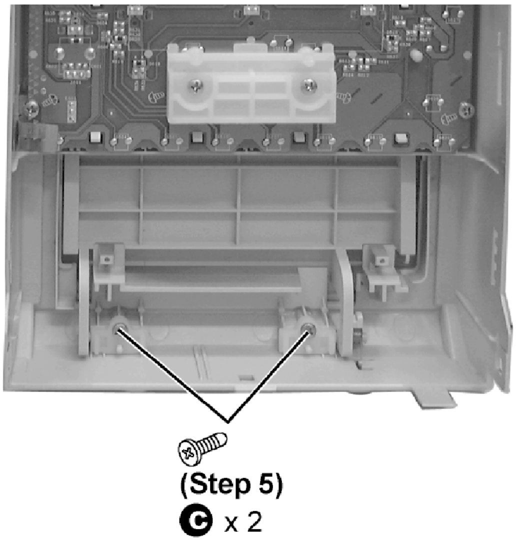
Step 3 Release 3 claws. (2 on the side and 1 at the bottom)


Front Panel
Claw
Claw
Claw

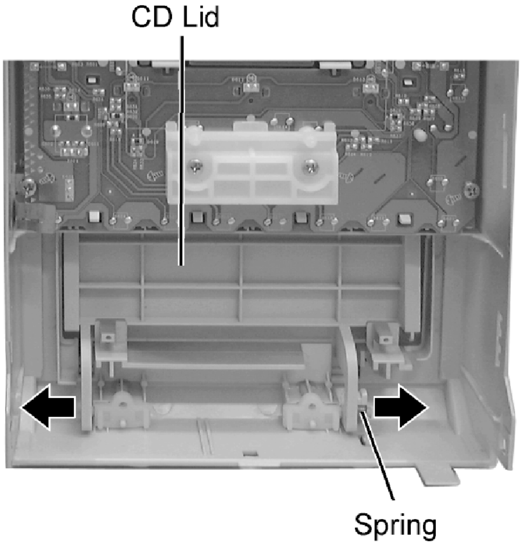
Step 4 Pull the Front Panel unit forward as arrow shown.

- Replacement of CD Lid.

Step 5 Remove 2 screws.



Step 6 Remove spring.



Step 7 Push the CD Lid sideward as arrow shown to remove it.
Note: Be careful of the spring.

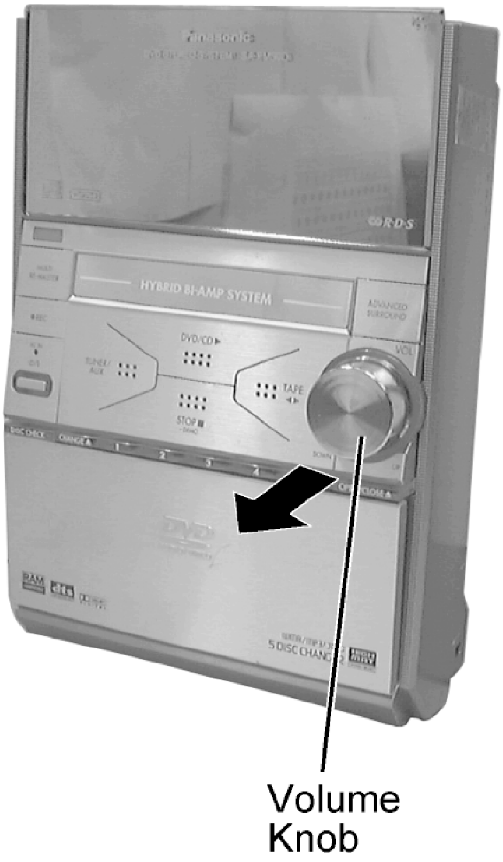
11.6. Disassembly of Panel P.C.B.

- Follow the (Step 1) - (Step 4) of Item 11.2

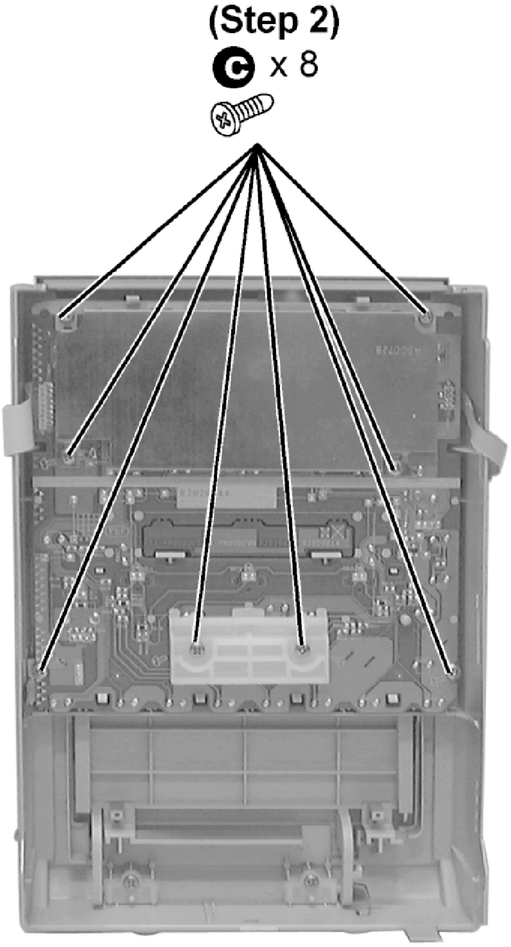
- Follow the (Step 1) - (Step 3) of Item 11.3

- Follow the (Step 1) - (Step 4) of Item 11.5

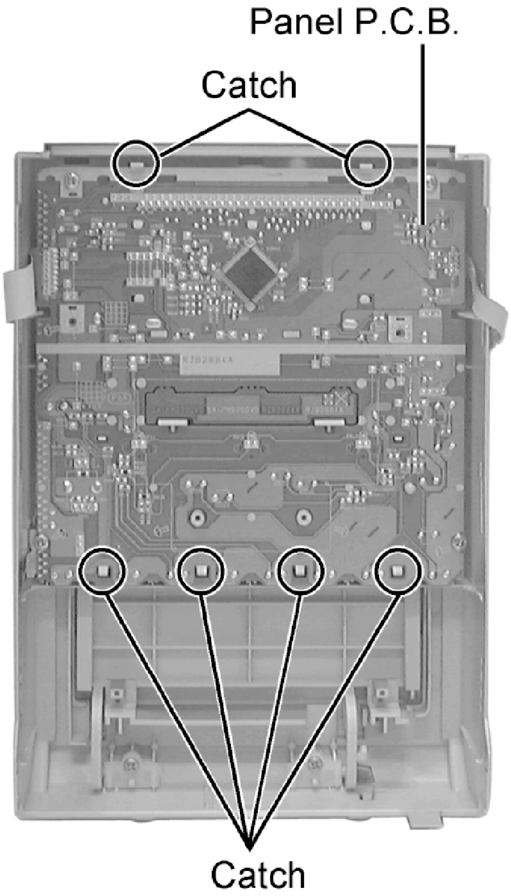
Step 1 Remove Volume Knob.



Step 2 Remove 8 screws.



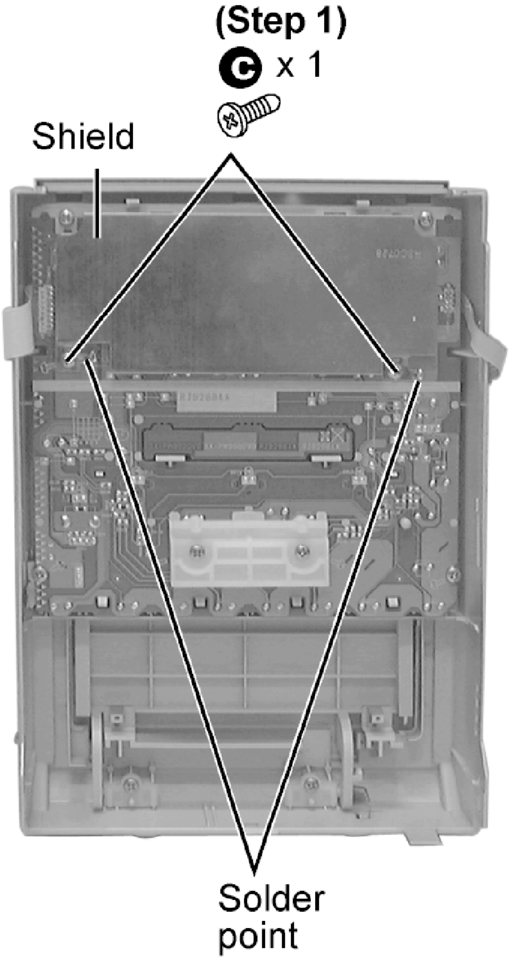
Step 3 Release 6 catches (2 on top & 4 below).


Panel P.C.B.
Catch
Catch

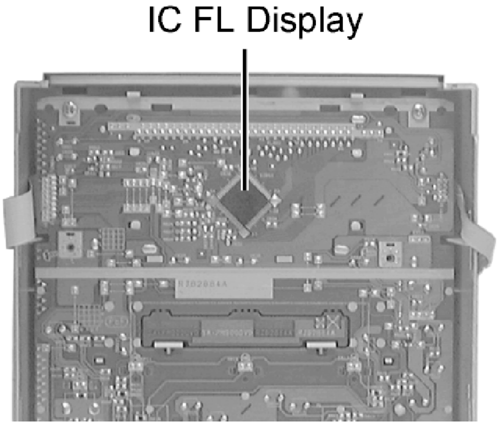
Step 4 Lift up Panel P.C.B..

Note: Replacement of FL Display IC

Step 1 Remove 2 screws.


(Step 1)
x 1
Shield
Solder point

Step 2 Desolder the 2 solder point.
Step 3 Remove shield.

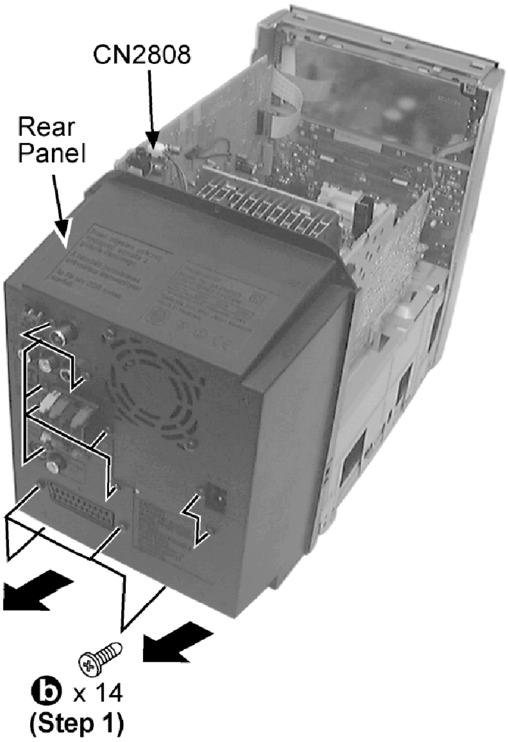

IC FL Display

11.7. Disassembly of Rear Panel

- Follow the (Step 1) - (Step 4) of Item 11.2

- Follow the (Step 1) - (Step 3) of Item 11.3

Step 1 Remove 14 screws.


CN2808
Rear Panel
ⓑ x 14
(Step 1)

Step 2 Detach connector CN2808 (Fan).

Step 3 Pull the Rear Panel unit backwards as arrow shown.

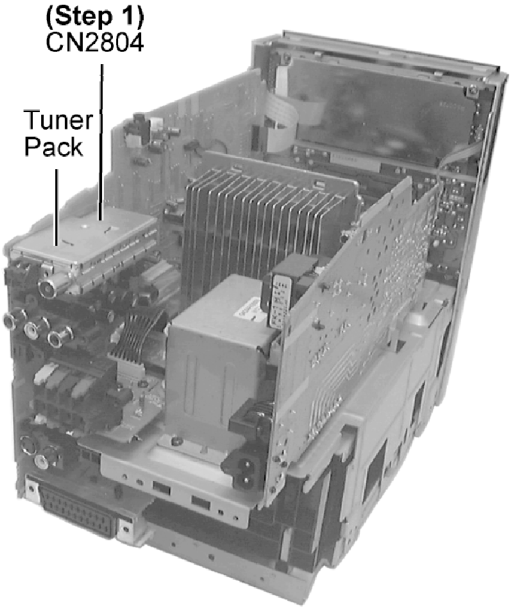
11.8. Disassembly of Tuner Pack

- Follow the (Step 1) - (Step 4) of Item 11.2

- Follow the (Step 1) - (Step 3) of Item 11.3

- Follow the (Step 1) - (Step 3) of Item 11.7

Step 1 Detach connector CN2804.


(Step 1)
CN2804
Tuner Pack

11.9. Disassembly of Main P.C.B. and Scart Terminal P.C.B.

- Follow the (Step 1) - (Step 4) of Item 11.2

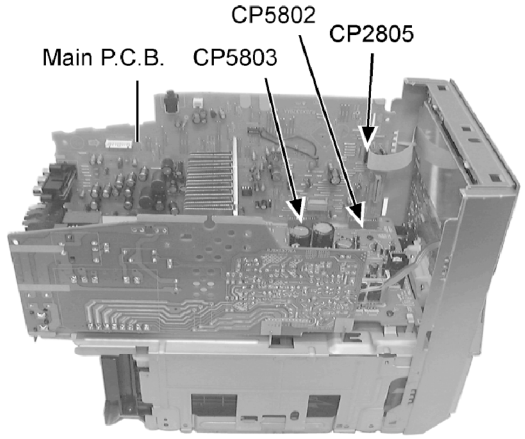
- Follow the (Step 1) - (Step 3) of Item 11.3

- Follow the (Step 1) - (Step 3) of Item 11.7

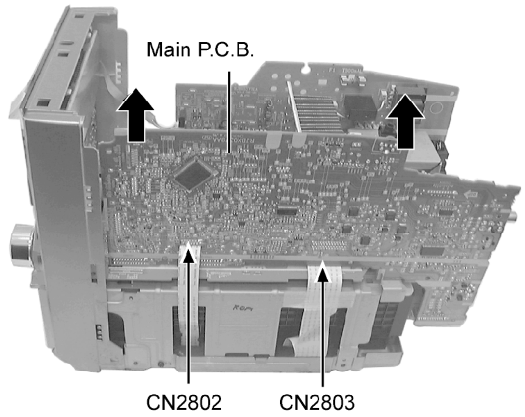
- Follow the (Step 1) of Item 11.8

- Disassembly of Main P.C.B.

Step 1 Detach 3 connectors CP5802, CP5803 & CP2805.



Step 2 Detach FFC board (CN2802 & CN2803).



Step 3 Lift Main P.C.B. upward as arrow shown.

Note: Do not exert strong force when lifting up the P.C.B.

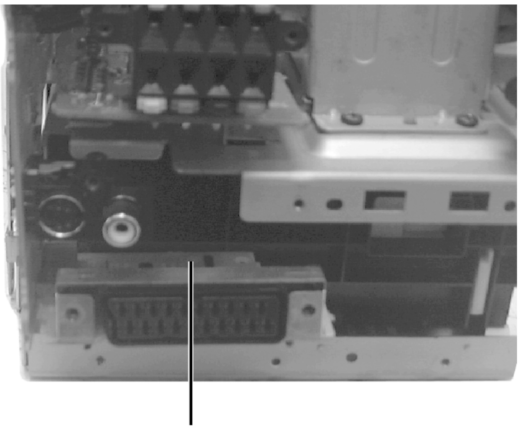
- Disassembly of Scart Terminal P.C.B.

- Follow the (Step 1) - (Step 4) of Item 11.2

- Follow the (Step 1) - (Step 3) of Item 11.3

- Follow the (Step 1) - (Step 3) of Item 11.7

- Follow the (Step 1) of Item 11.8


Scart Terminal P.C.B.

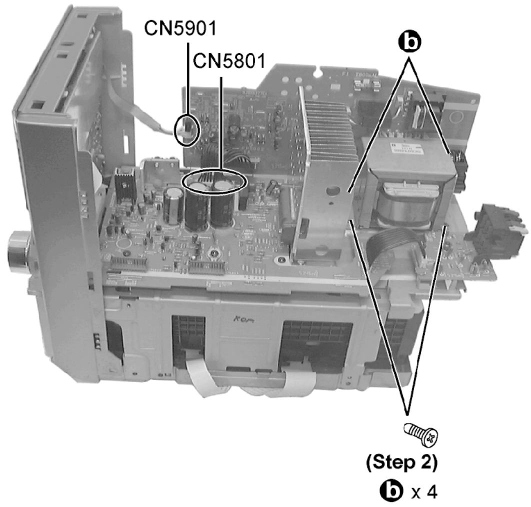
11.10. Disassembly of Transformer P.C.B.

- Follow the (Step 1) - (Step 4) of Item 11.2

- Follow the (Step 1) - (Step 3) of Item 11.3

- Follow the (Step 1) - (Step 3) of Item 11.7

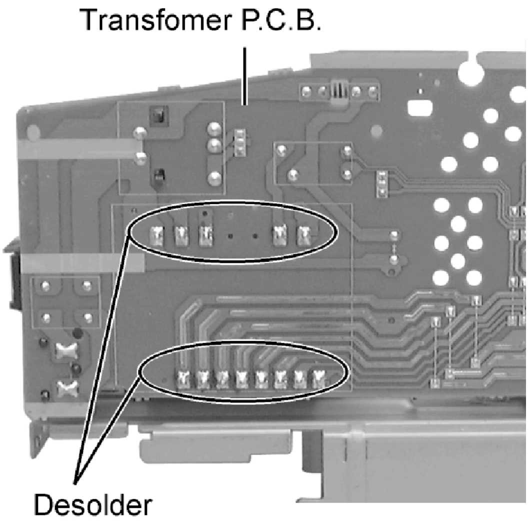
Step 1 Detach connectors CN5901 & CN5801.


CN5901
CN5801
b
(Step 2)
b x 4

Step 2 Remove 4 mounting screws.

- Replacement of Power Transformer.

Step 1 Desolder the terminal points at Transformer P.C.B.


Transfomer P.C.B.
Desolder

11.11. Disassembly of Power P.C.B. & Speaker Terminal P.C.B.

- Follow the (Step 1) - (Step 4) of Item 11.2

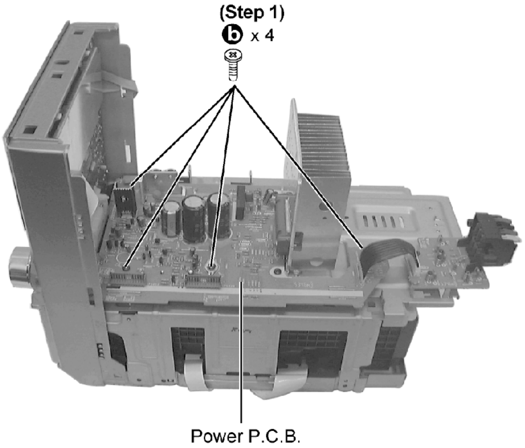
- Follow the (Step 1) - (Step 3) of Item 11.3

- Follow the (Step 1) - (Step 3) of Item 11.7

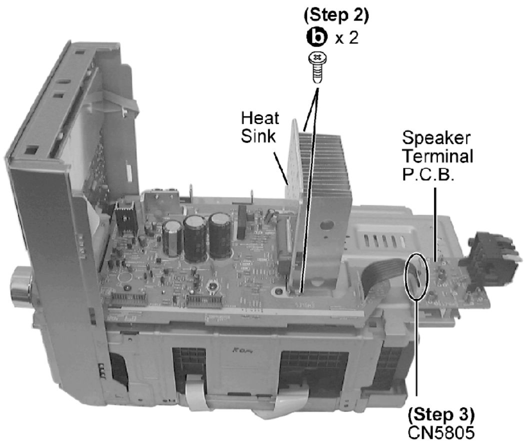
- Follow the (Step 1) - (Step 3) of Item 11.9

- Follow the (Step 1) - (Step 2) of Item 11.10

Step 1 Remove 4 screws.


(Step 1)
b x 4
Power P.C.B.

Step 2 Remove 2 screws from heat sink.

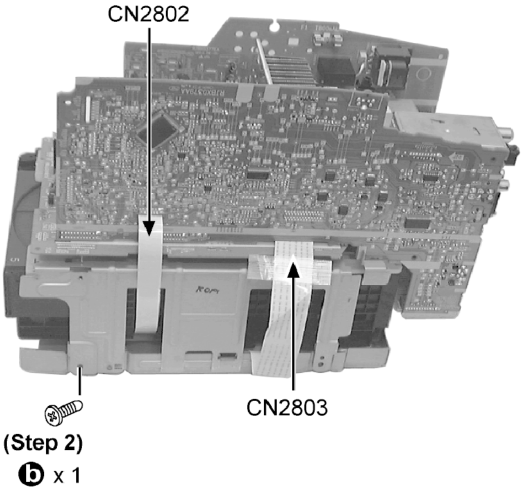

(Step 2)
ⓑ x 2
Heat Sink
Speaker Terminal P.C.B.
(Step 3)
CN5805

Step 3 Detach connector CN5805.

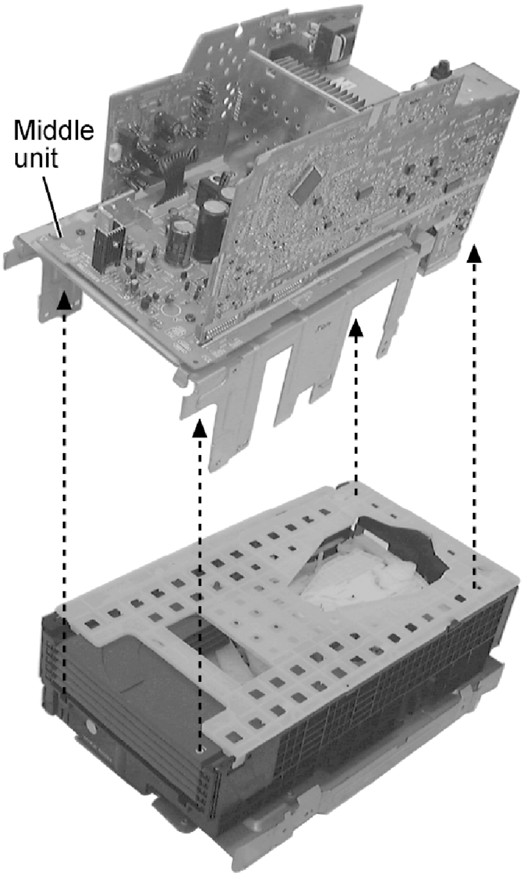
11.12. Disassembly of CD Mechanism Unit

- **Follow the (Step 1) - (Step 3) of Item 11.2**
- **Follow the (Step 1) - (Step 3) of Item 11.3**
- **Follow the (Step 1) - (Step 4) of Item 11.5**
- **Follow the (Step 1) - (Step 3) of Item 11.7**
- **Disassembly of Middle Unit**

Step 1 Detach both FFCs (CN2802 & CN2803).


CN2802
CN2803
(Step 2)
ⓑ x 1

Step 2 Remove 1 screw.



Step 3 Lift up middle unit.

- Replacement of Power IC

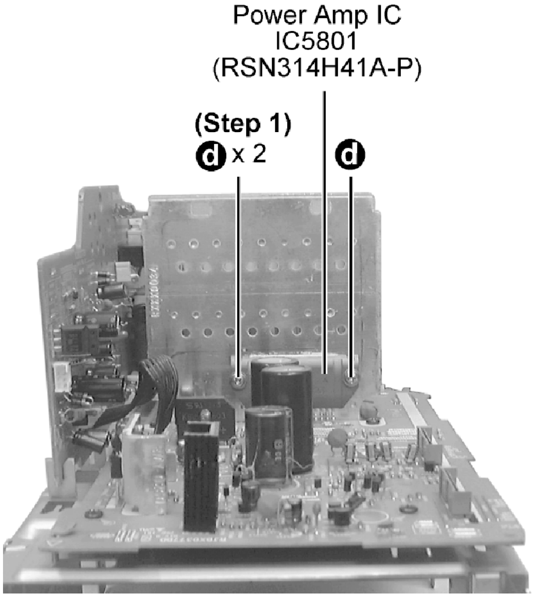
- Follow the (Step 1) - (Step 4) of item 11.2

- Follow the (Step 1) - (Step 3) of item 11.3

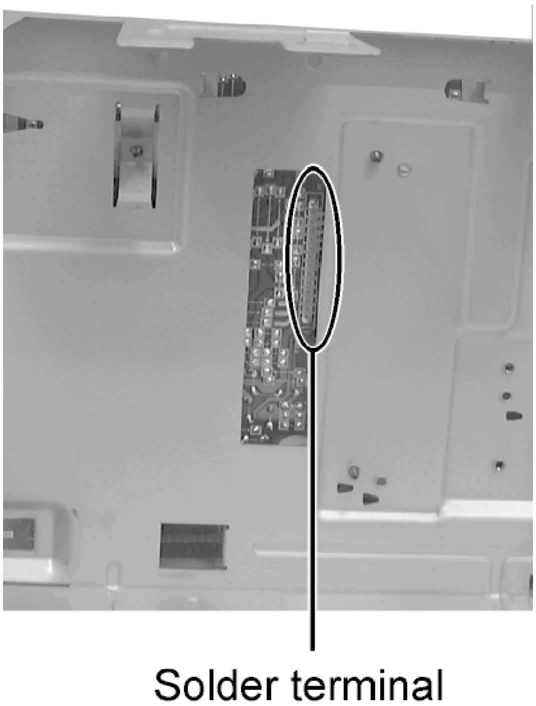
- Follow the (Step 1) - (Step 3) of item 11.7

- Follow the (Step 1) - (Step 2) of item 11.10

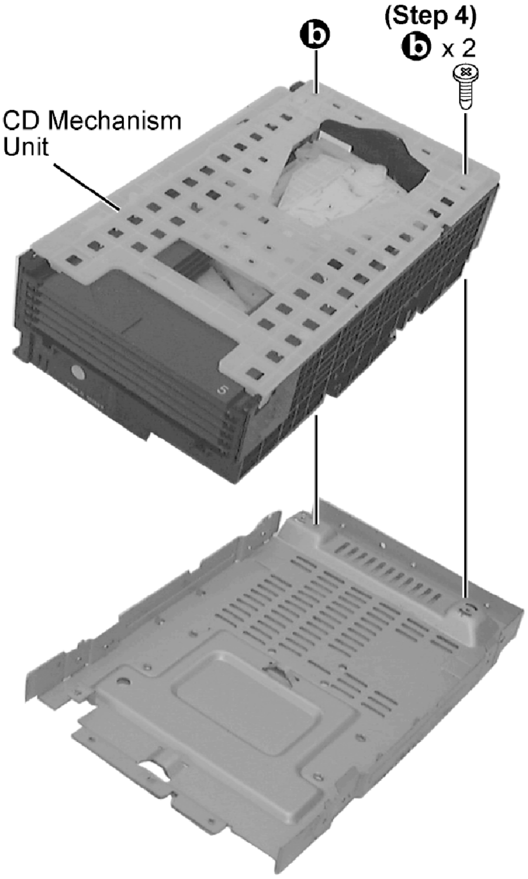
Step 1 Remove 2 screws.


Power Amp IC
IC5801
(RSN314H41A-P)
(Step 1)
d x 2
d

Step 2 Desolder the terminal of Power Amp IC and replace the component.


Solder terminal

- Disassembly of CD Mecha Unit


(Step 4)
b x 2
b
CD Mechanism Unit

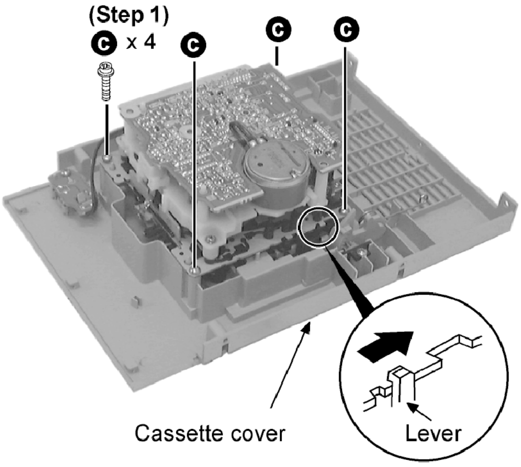
Step 4 Remove 2 screws.

Step 5 Lift up CD Mechanism unit.

11.13. Procedure for Replacing Cassette Holder

- Follow the (Step 1) - (Step 4) of Item 11.2

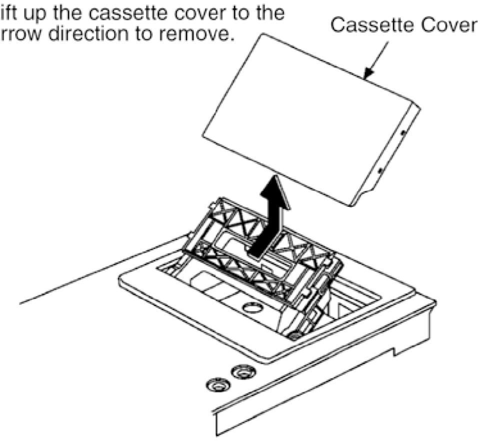
- Follow the (Step 1) - (Step 3) of Item 11.3


(Step 1)
c x 4
c
c
c
Cassette cover
Lever

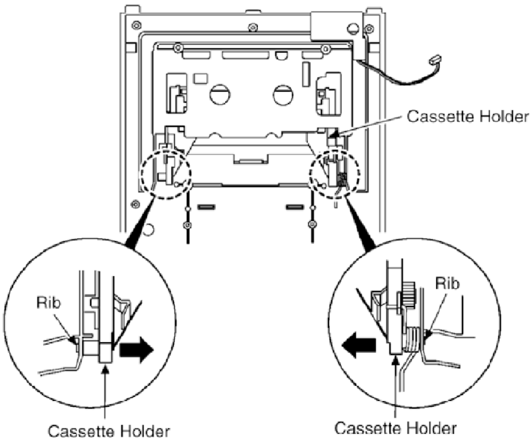
Step 2 Press the lever to open the cassette cover.

Step 3 Remove the cassette mechanism unit.

Step 4
Lift up the cassette cover to the arrow direction to remove.

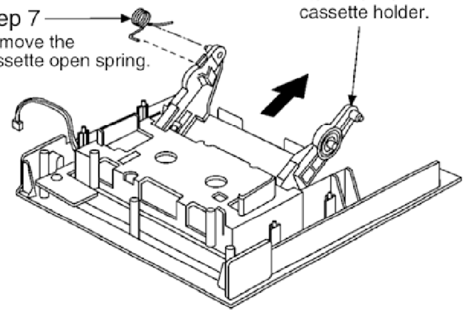

Cassette Cover

Step 5
Pull out the ribs of the cassette holder to the arrow direction.


Cassette Holder
Rib
Rib
Cassette Holder
Cassette Holder

Step 6
Remove the cassette holder.

Step 7
Remove the cassette open spring.

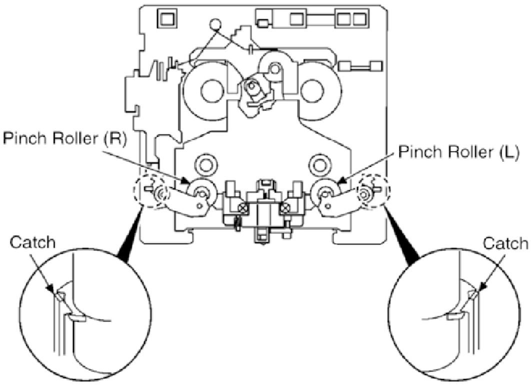


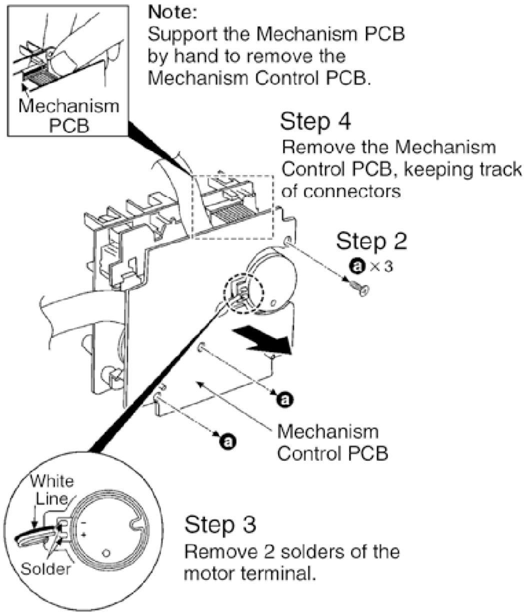
11.14. Procedure for Replacing Pinch Roller and Head Block (Cassette Mechanism Unit)

- Follow the (Step 1) - (Step 7) of Item 11.13

Step 1

Release catches to remove the pinch rollers (R) and (F).


Pinch Roller (R)
Pinch Roller (L)
Catch
Catch


Mechanism PCB
ⓐ × 3
ⓐ
ⓐ
Mechanism Control PCB
White Line
Solder

Note:
Support the Mechanism PCB by hand to remove the Mechanism Control PCB.

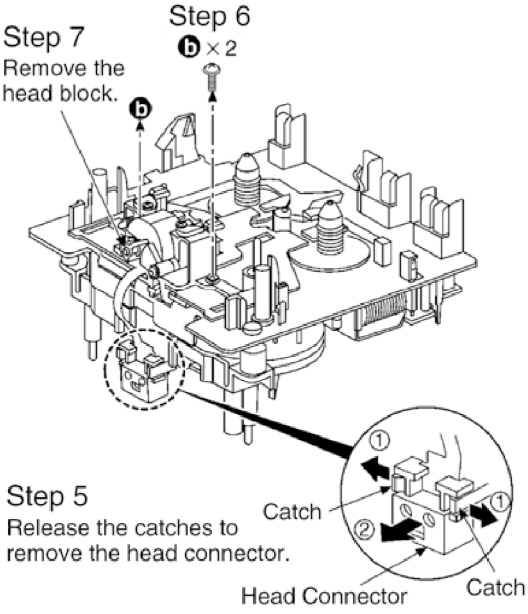
Step 4

Remove the Mechanism Control PCB, keeping track of connectors

Step 2

Step 3

Remove 2 solders of the motor terminal.


ⓑ × 2
ⓑ
①
①
②
Catch
Catch
Head Connector

Step 6

Step 7

Remove the head block.

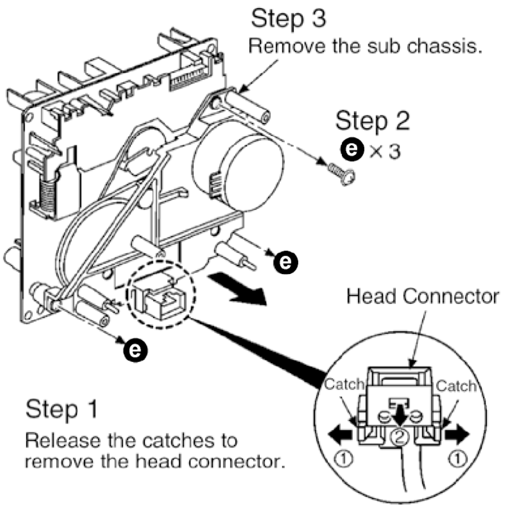
Step 5

Release the catches to remove the head connector.

11.15. Procedure for Replacing Motor, Capstan Belt A, Capstan Belt B, and Winding Belt (Cassette Mechanism Unit)

- Follow the (Step 1) - (Step 7) of Item 11.13

- Follow the (Step 1) - (Step 7) of Item 11.14

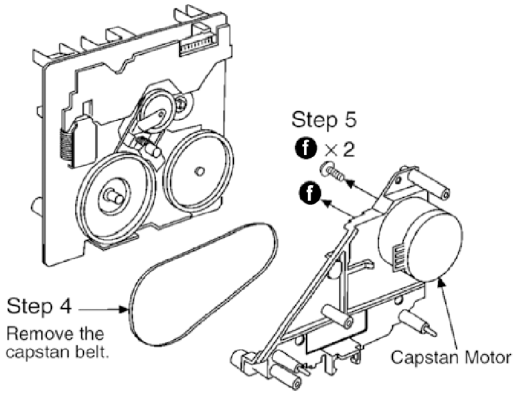


Step 3
Remove the sub chassis.

Step 2
e × 3

Step 1
Release the catches to remove the head connector.

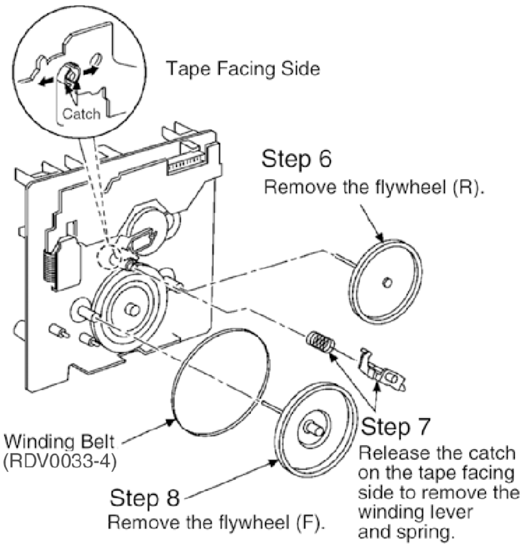
e
e
Head Connector
Catch
Catch
①
②
①



Step 5
f × 2

Step 4
Remove the capstan belt.

f
Capstan Motor



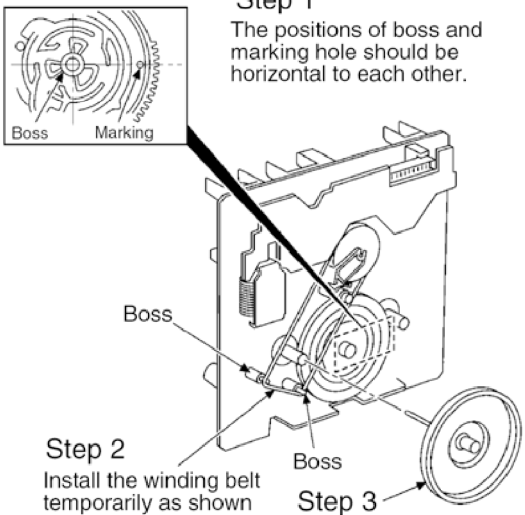
Step 6
Remove the flywheel (R).

Step 7
Release the catch on the tape facing side to remove the winding lever and spring.

Step 8
Remove the flywheel (F).

Tape Facing Side
Catch
Winding Belt
(RDV0033-4)

Installing Belt


Boss
Marking
Boss
Boss

Step 1

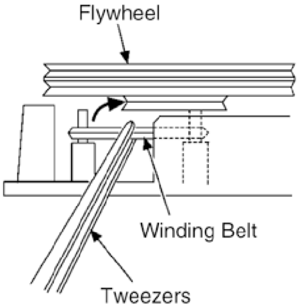
The positions of boss and marking hole should be horizontal to each other.

Step 2

Install the winding belt temporarily as shown in the figure above.

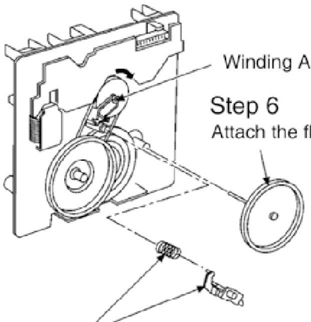
Step 3

Attach the flywheel (F).


Flywheel
Winding Belt
Tweezers

Step 4

Catch the winding belt on the flywheel (F).


Winding Arm

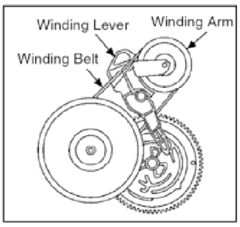
Step 6

Attach the flywheel (R).

Step 5

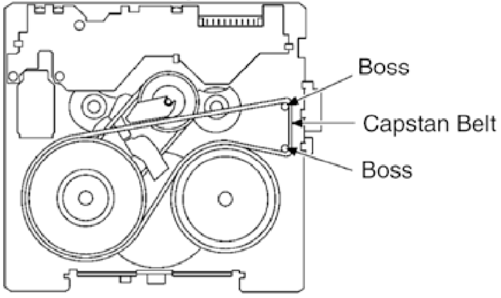
Install the winding lever and spring while the winding arm is pressed to the arrow direction. (Be sure that the winding lever is firmly inserted and the catch is hooked.)

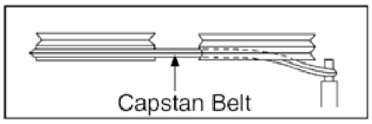
Note:
The winding lever should be positioned as shown in the right figure.


Winding Lever
Winding Arm
Winding Belt

Step 7

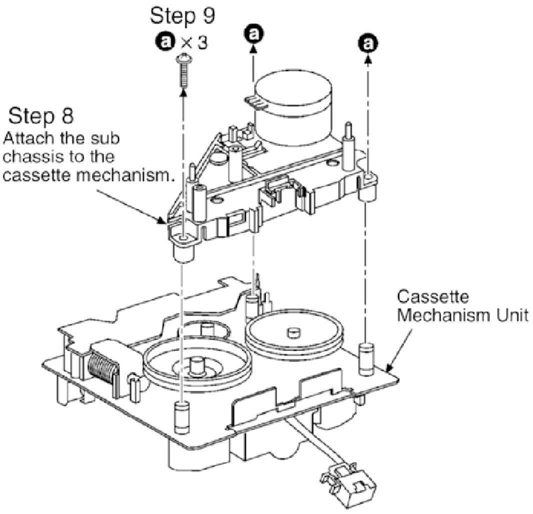
Install the capstan belt temporarily as shown in the figure below.


Boss
Capstan Belt
Boss


Capstan Belt

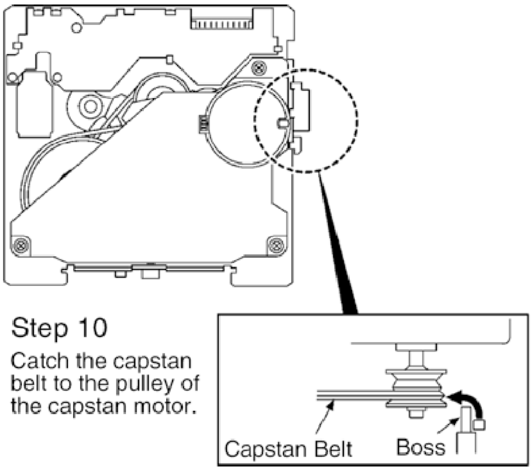
Side View

Note:
Keep the belt away from grease.


a × 3
a
a
Cassette Mechanism Unit

Step 9

Step 8
Attach the sub chassis to the cassette mechanism.

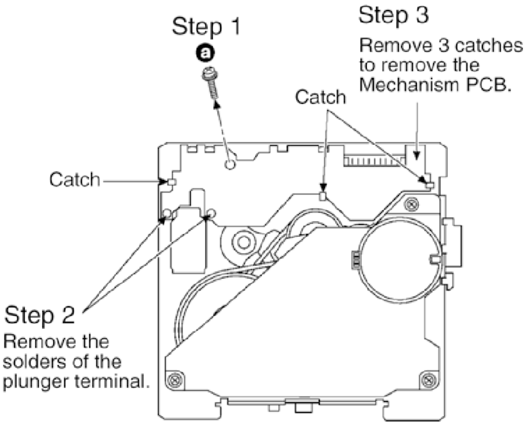

Capstan Belt
Boss

Step 10
Catch the capstan belt to the pulley of the capstan motor.

11.16. Procedure for Replacing Parts on Mechanism PCB

- Follow the (Step 1) - (Step 3) of Item 11.2

- Follow the (Step 1) - (Step 3) of Item 11.3
- Follow the (Step 1) - (Step 7) of Item 11.13
- Follow the (Step 1) - (Step 7) of Item 11.14
- Follow the (Step 1) - (Step 10) of Item 11.15


Step 1
a
Step 3
Remove 3 catches to remove the Mechanism PCB.
Catch
Catch
Step 2
Remove the solders of the plunger terminal.

11.17. Procedure for removing CD loading mechanism

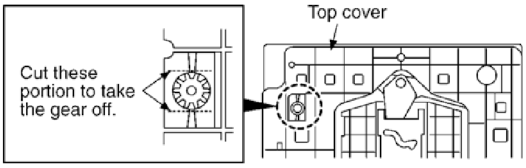
1. Turn off by pressing power SW in the body.
2. Unplug AC power cord after the indication of [GOOD-BYE], then disassemble the body.
3. Disassemble the body, and take out CD loading mechanism.
4. Perform disassembly according to the following procedure for disassembly.

11.18. CR16 mechanism disassembly procedure

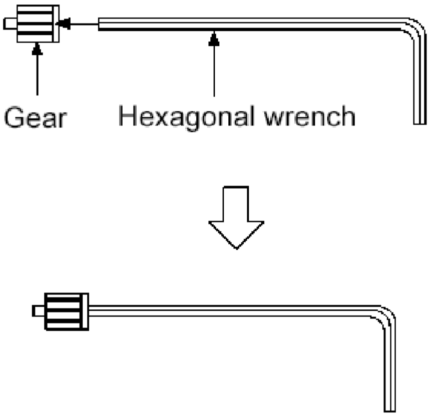
11.18.1. Gear for servicing information

- This unit has a gear which used for checking items (open/close of disc tray, up/down operation of traverse unit by manually) when servicing. (For gear information, that is described on the items for disassembly procedures.)
- For preparation of gear (for servicing), perform the procedures as follows.
- In case of re-servicing the same set, the “gear for servicing” may be took off because it had been used. So, the “gear for servicing” must be stored.

1. Remove the gear attached to top cover of CD loading mechanism.


Cut these portion to take the gear off.
Top cover

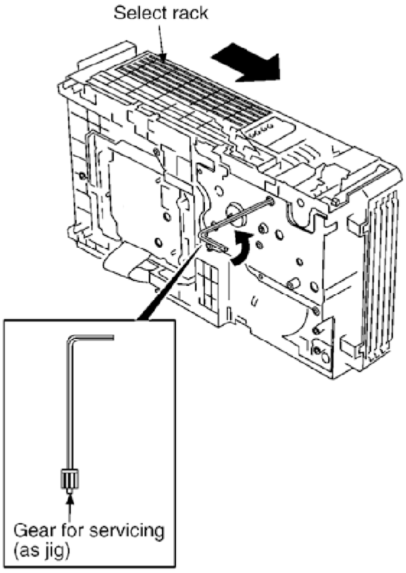
2. Insert the hexagonal wrench (2.5mm) into the gear.


Gear
Hexagonal wrench

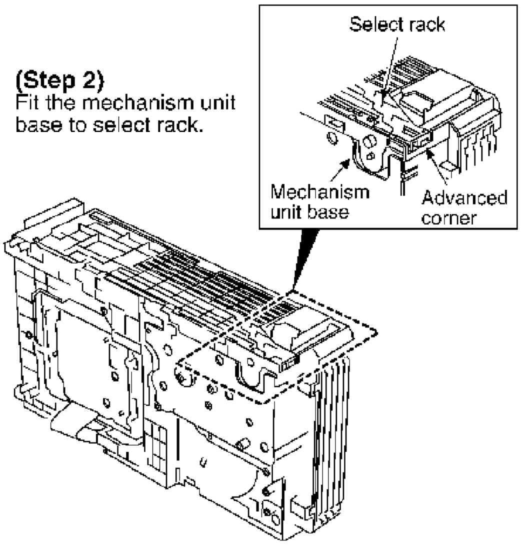
(Preparation of gear as jig is completed)

11.18.2. Replacement for the disc tray

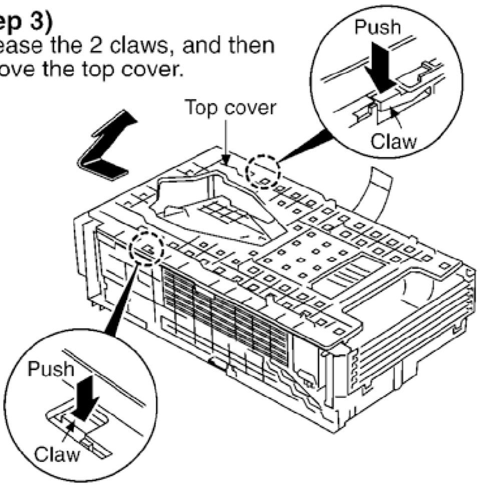
(Step 1)
Rotate the gear for servicing and move the select rack to advanced corner.


Select rack
Gear for servicing (as jig)

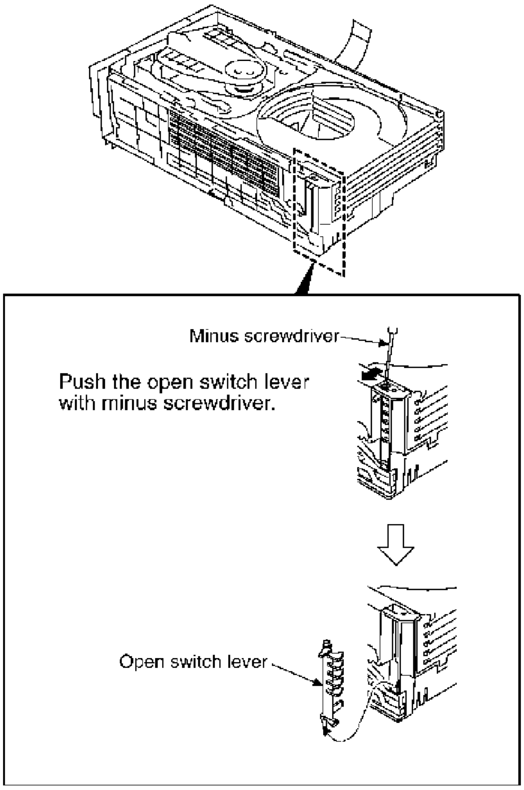
(Step 2)
Fit the mechanism unit base to select rack.


Select rack
Mechanism unit base
Advanced corner

(Step 3)
Release the 2 claws, and then remove the top cover.

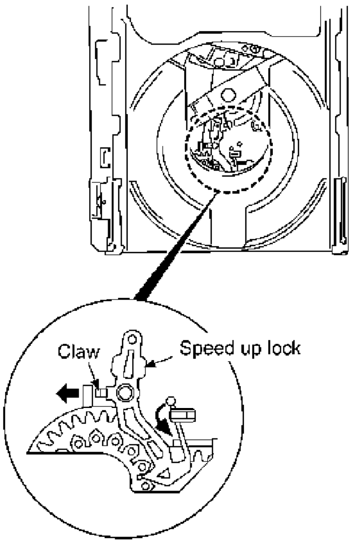

Push
Claw
Top cover
Push
Claw

(Step 4)
Remove the open switch lever.


Minus screwdriver
Open switch lever

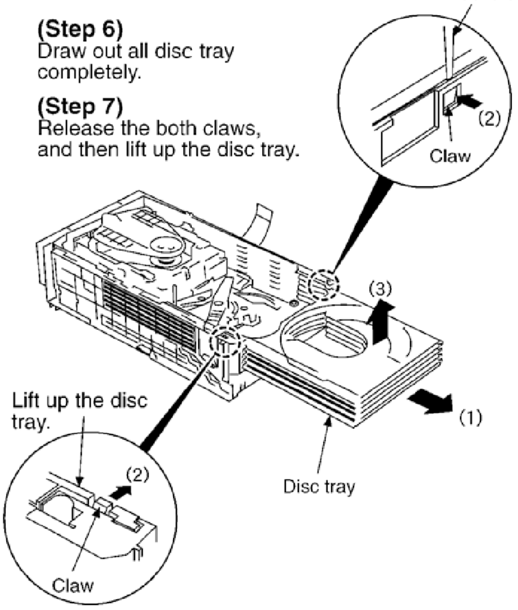
Push the open switch lever with minus screwdriver.

(Step 5)
Release the claw, and then remove the speed up lock.

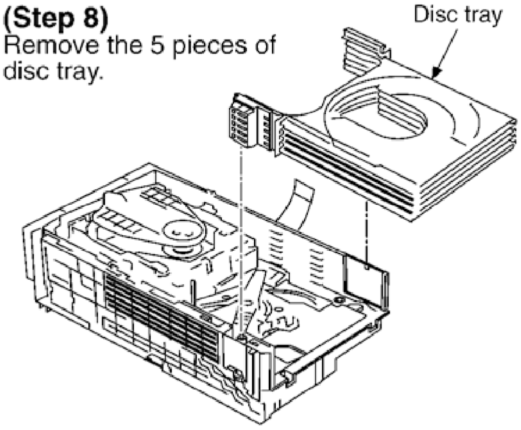

Claw
Speed up lock

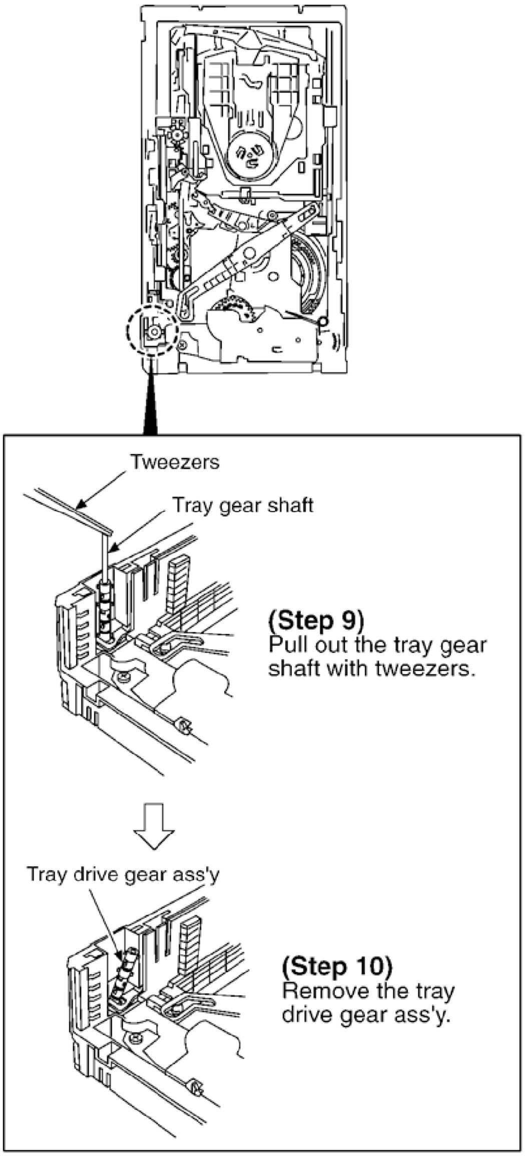
(Step 6)
Draw out all disc tray completely.

(Step 7)
Release the both claws, and then lift up the disc tray.


Insert the tweezers between the mechanism base and disc tray, and then lift up the disc tray.
Tweezers
(2)
Claw
(3)
(1)
Lift up the disc tray.
(2)
Claw
Disc tray

(Step 8)
Remove the 5 pieces of disc tray.




Tweezers
Tray gear shaft
Tray drive gear ass'y

(Step 9)
Pull out the tray gear shaft with tweezers.

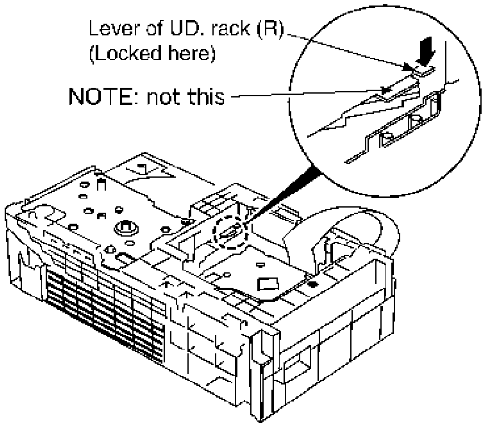
(Step 10)
Remove the tray drive gear ass'y.

11.18.3. Replacement for the traverse deck

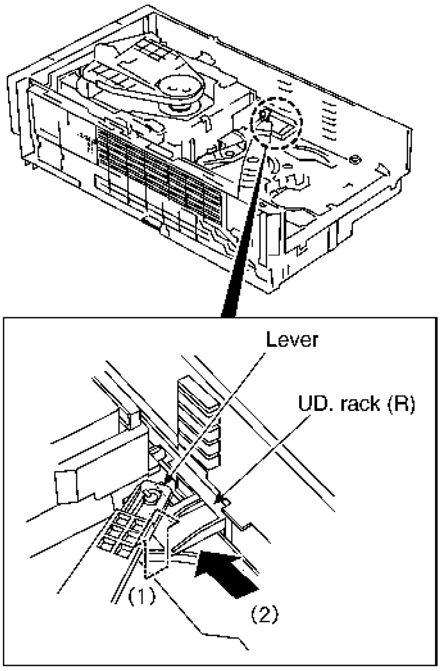
- Follow the (Step 1) - (Step 10) of item 11.20.2.

(Step 1)
Confirm the position for lever of UD. rack (R) to remove traverse unit.

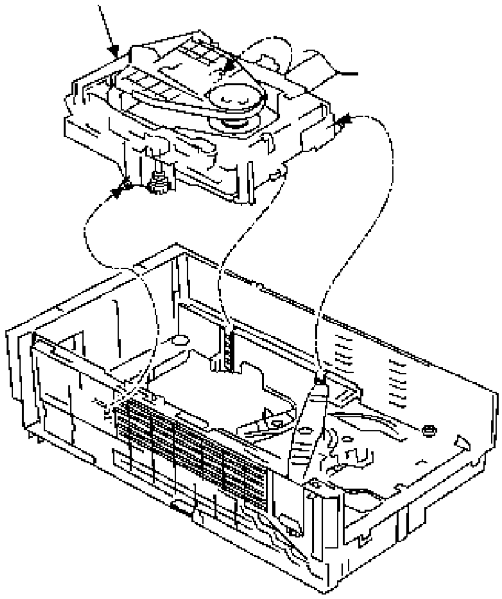
(Step 2)
Turn the unit over. (Upside: P.C.B.)


Lever of UD. rack (R)
(Locked here)
NOTE: not this

(Step 3)
Turn the unit over again, slide UD. rack (R) while pushing up the lever from the bottom.


Lever
UD. rack (R)
(1)
(2)

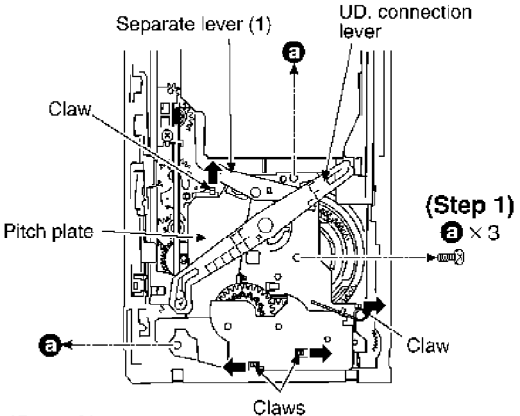
(Step 4)
Remove the traverse unit.



11.18.4. Disassembly for CD loading unit

- Follow the (Step 1) - (Step 10) of item 11.20.2.

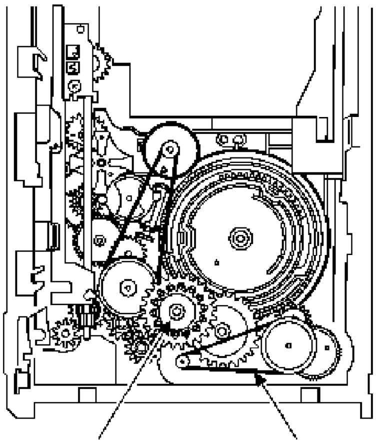
- Follow the (Step 1) - (Step 3) of item 11.20.3.


Separate lever (1)
UD. connection lever
a
Claw
Pitch plate
(Step 1)
a × 3
a
Claw
Claws

(Step 2)
Release the 4 claws, and then remove the pitch plate together with separate lever (1) and UD. connection lever.

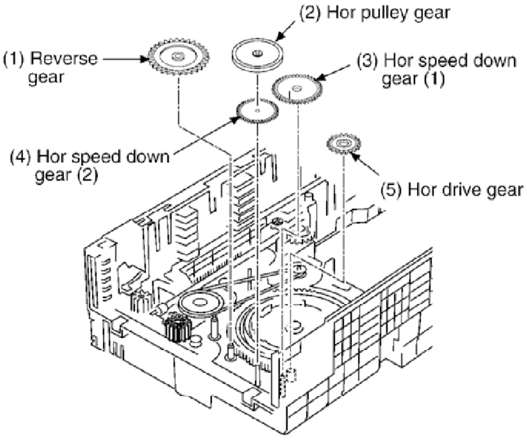
(Step 3)

Remove the speed up gear and hor belt.


Speed up gear
Hor belt

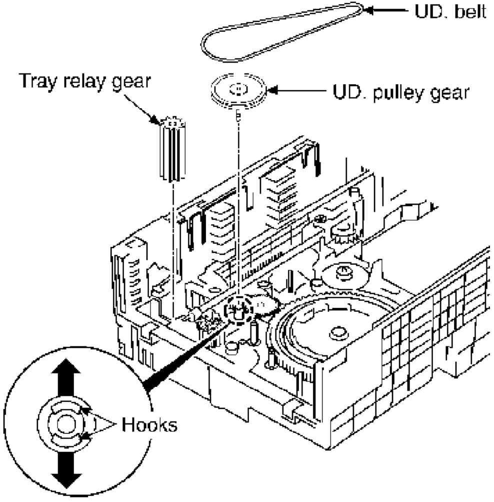
(Step 4)

Remove the reverse gear, hor pulley gear, hor speed down gear (1), hor speed down gear (2) and hor drive gear.


(2) Hor pulley gear
(1) Reverse gear
(3) Hor speed down gear (1)
(4) Hor speed down gear (2)
(5) Hor drive gear

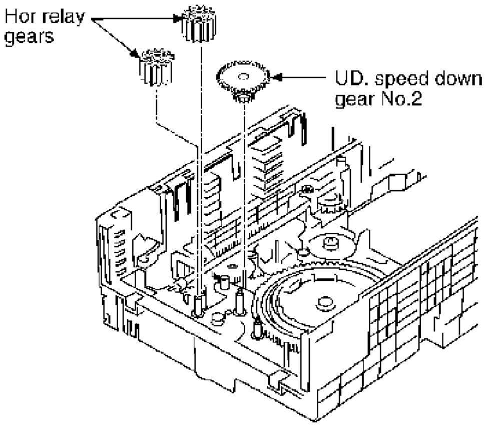
(Step 5)
Remove the UD. belt and tray relay gear.

(Step 6)
Pull out the UD. pulley gear, loosen 2 hooks of the bottom of mechanism base.

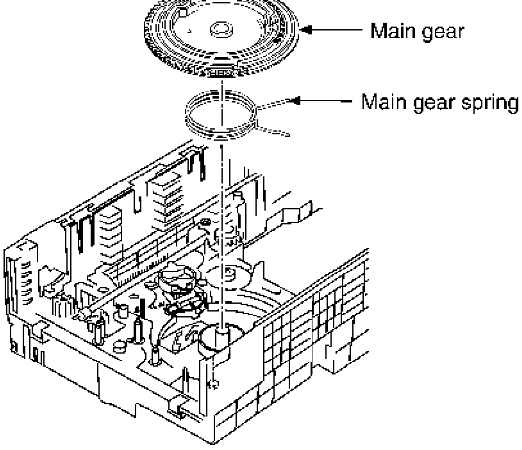

UD. belt
Tray relay gear
UD. pulley gear
Hooks

(Bottom side)

(Step 7)
Remove the 2 hor relay gears and UD. speed down gear No.2.

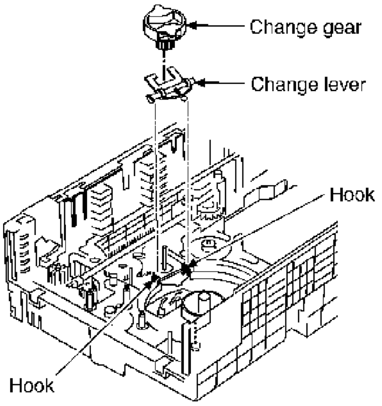

Hor relay gears
UD. speed down gear No.2

(Step 8)
Remove the main gear and main gear spring.

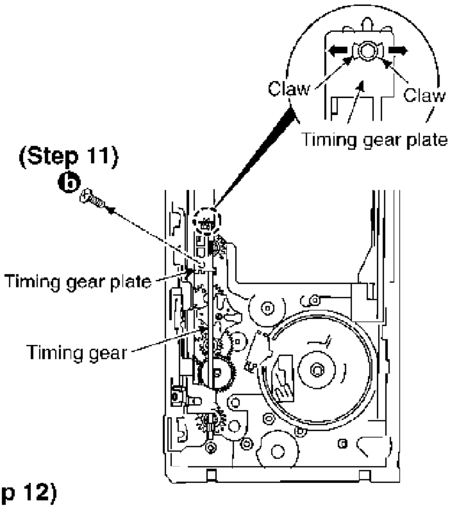

Main gear
Main gear spring

(Step 9)
Remove the change gear.

(Step 10)
Raise the change lever upright, and pull it out of hook.


Change gear
Change lever
Hook
Hook

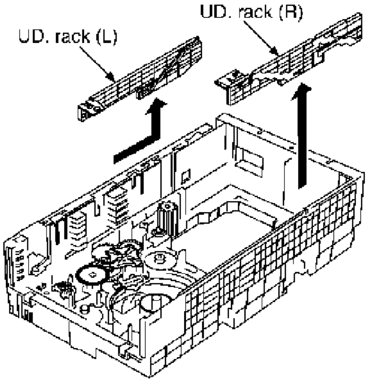
(Step 11)


Claw
Claw
Timing gear plate
b
Timing gear plate
Timing gear

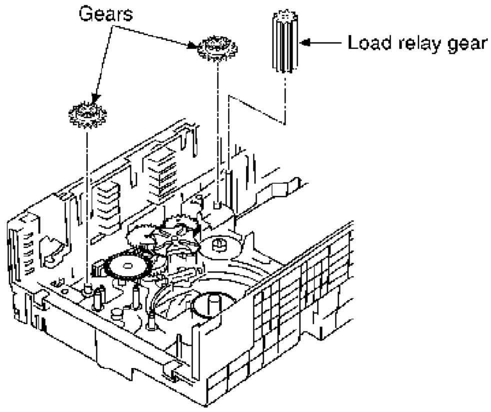
(Step 12)
Release the 2 claws, and then remove the timing gear and timing gear plate.

(Step 13)
Move the UD. rack (L) to backward, and then remove it.

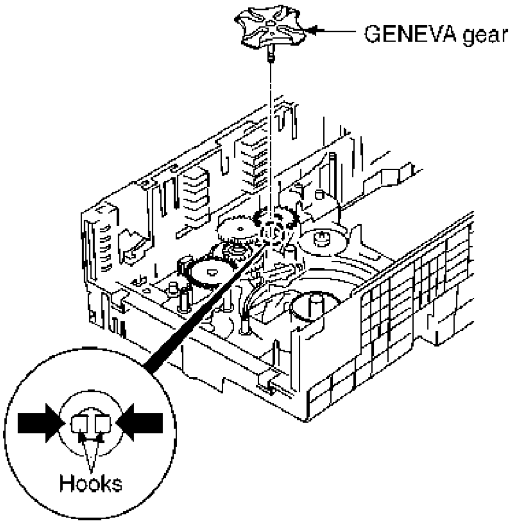
(Step 14)
Remove the UD. rack (R).


UD. rack (R)
UD. rack (L)

(Step 15)
Remove the 2 gears and load relay gear.

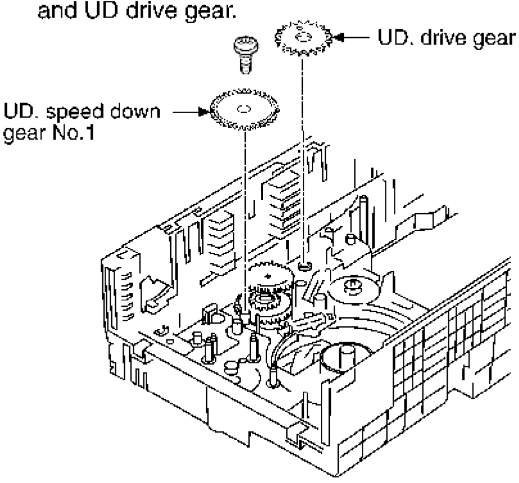

Gears
Load relay gear

(Step 16)
Pull out the GENEVA gear, loosen 2 hooks of the bottom of mechanism base.

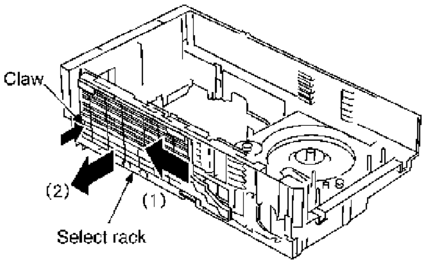

GENEVA gear
Hooks

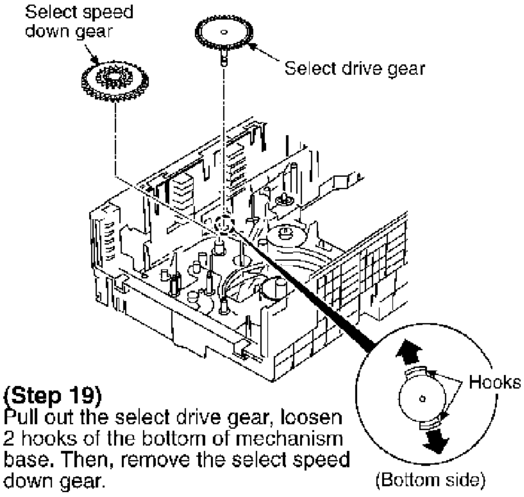
(Bottom side)

(Step 17)
Remove the UD. speed down gear No.1 and UD drive gear.


UD. drive gear
UD. speed down gear No.1

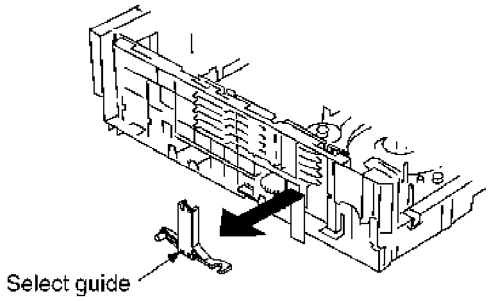
(Step 18)
Slide the select rack to the edge direction of the arrow (1). Push the claw and pull out to arrow (2) while sliding the select rack to the arrow (1).


Claw
(2)
(1)
Select rack

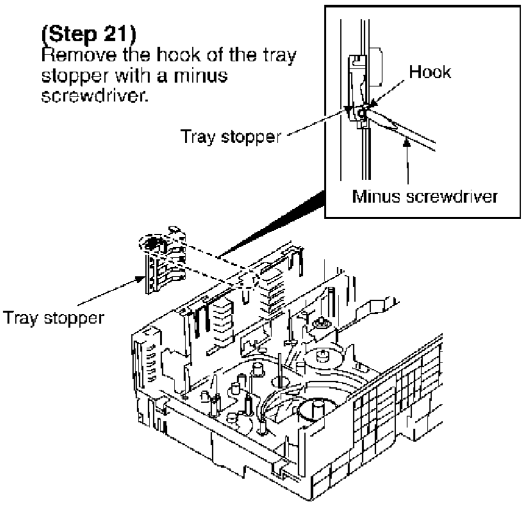

Select speed down gear
Select drive gear
Hooks
(Bottom side)

(Step 19)
Pull out the select drive gear, loosen 2 hooks of the bottom of mechanism base. Then, remove the select speed down gear.

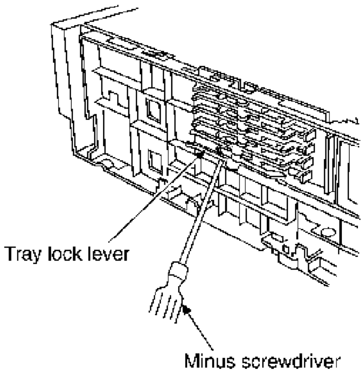
(Step 20)
Remove the select guide after sliding upside.


Select guide

(Step 21)
Remove the hook of the tray stopper with a minus screwdriver.


Hook
Tray stopper
Minus screwdriver
Tray stopper

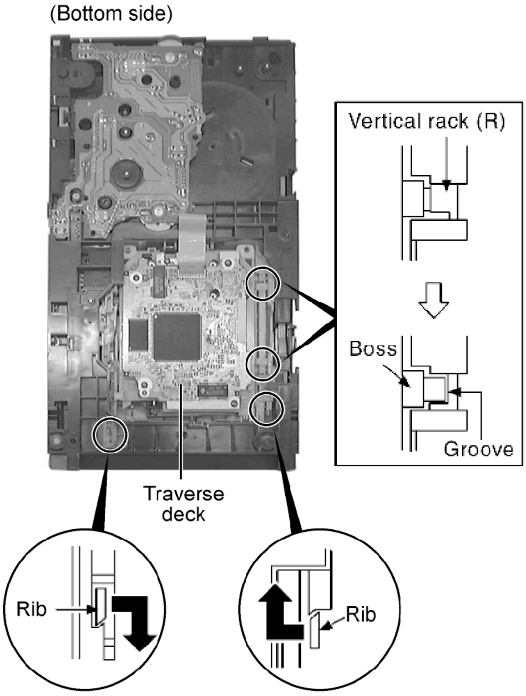
(Step 22)
Remove the bottom of the tray lock lever with a minus screwdriver and others.


Tray lock lever
Minus screwdriver

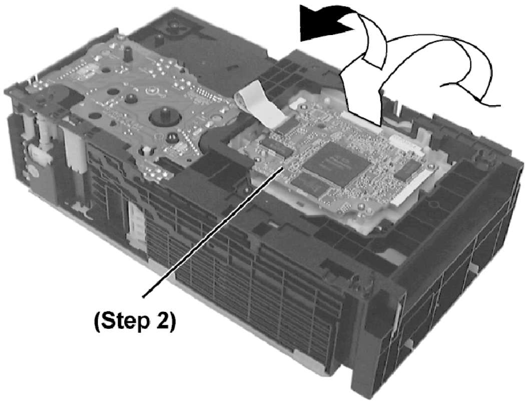
11.19. Replacement for traverse deck

- Follow the (Step 1) - (Step 3) of Item 11.12.

Step 1 Move ribs at both sides to the arrow direction (The verticval rack (R) slides and the groove opens).


(Bottom side)
Vertical rack (R)
Boss
Groove
Traverse deck
Rib
Rib

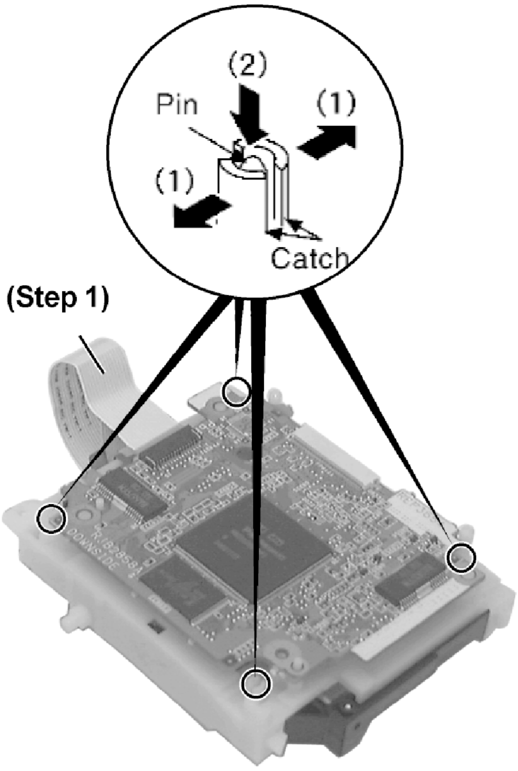
Step 2 Remove CD traverse deck rotating to the arrow direction.



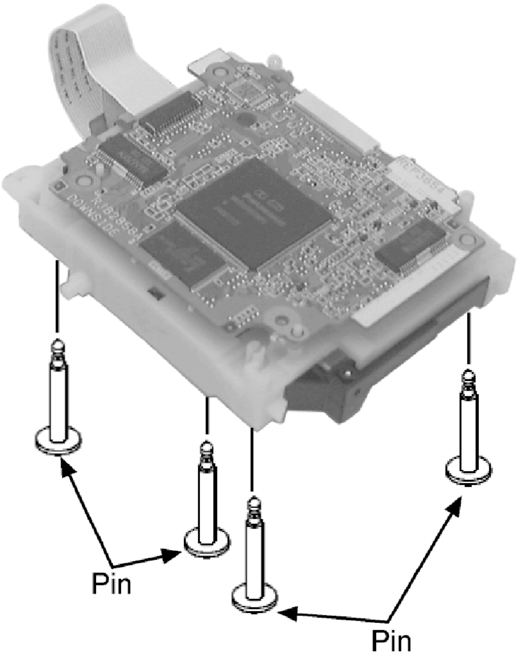
11.20. Replacement for optical pickup unit (CD mechanism)

- **Follow the (Step 1) - (Step 4) of Item 11.2**
- **Follow the (Step 1) - (Step 3) of Item 11.3**
- **Follow the (Step 1) - (Step 7) of Item 11.5**
- **Follow the (Step 1) - (Step 3) of Item 11.7**
- **Follow the (Step 1) - (Step 2) of Item 11.20**

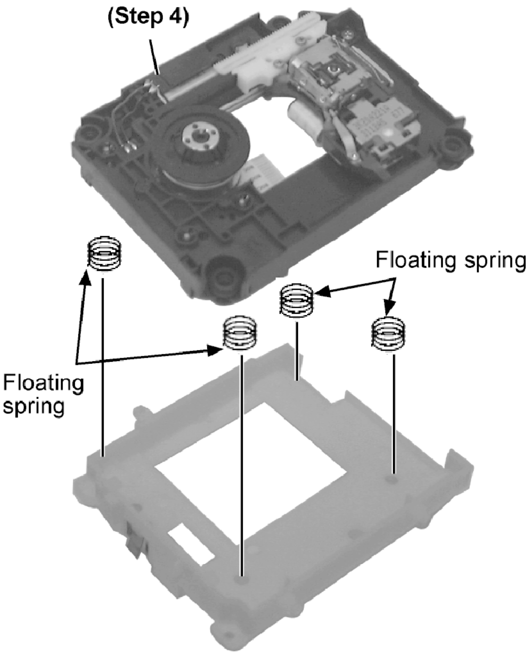
Step 1 Pull out FFC.


(2)
Pin
(1)
(1)
Catch
(Step 1)

Step 2 Widening the catch, push the pin in.

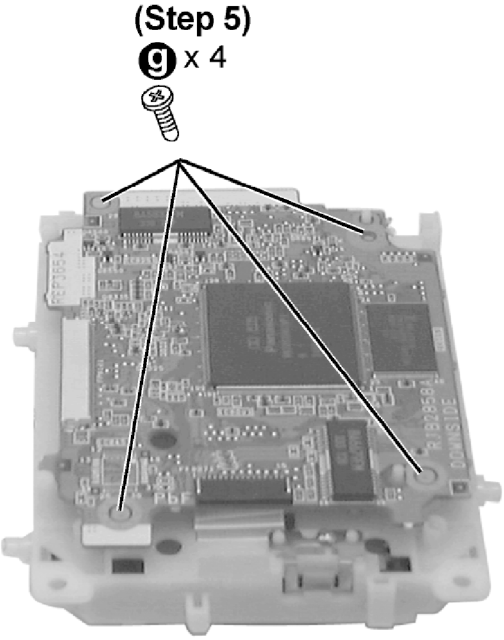


Step 3 Remove 4 pins.


(Step 4)
Floating spring
Floating
spring

Step 4 Remove the traverse deck.

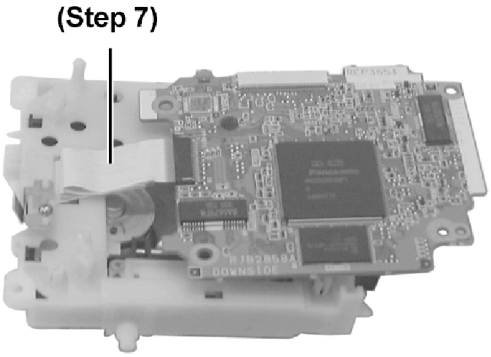
Note: As floating springs (4 pieces) come off at the same time, be careful not to lose them.

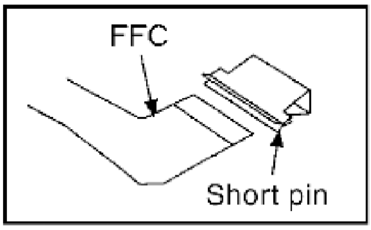


Step 6 Remove the dvd module board and turn it over.

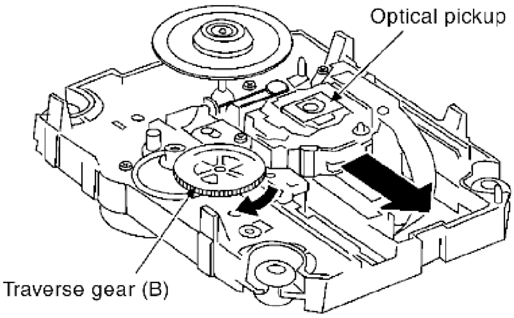
Step 7 Pull FFC out from the connector.

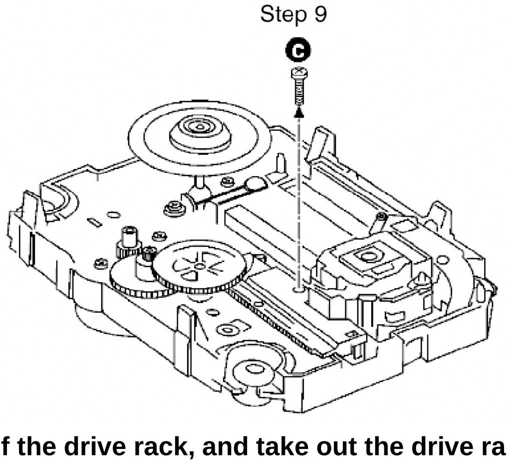
Note: Insert a short pin into FFC of the optical pickup. [See “Notice on handling of the optical pickup”].



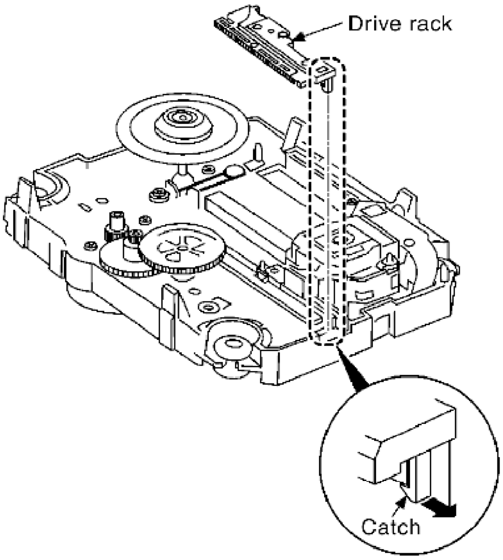

FFC
Short pin

Step 8 Rotate the traverse deck (B) to the arrow direction and shift the optical pickup to the furthest backward.

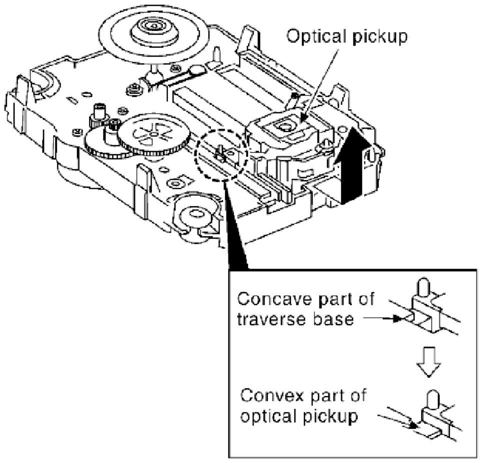

Optical pickup
Traverse gear (B)

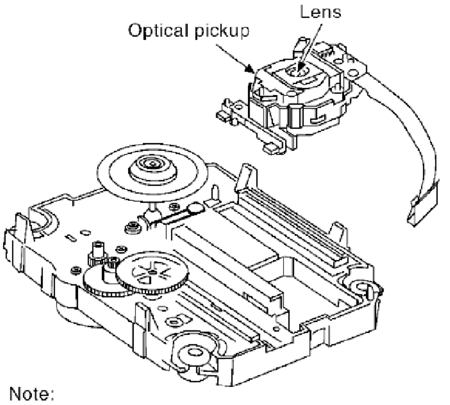


Step 10 Remove the catch of the drive rack, and take out the drive rack.


Drive rack
Catch

Step 11 Place the convex part of an optical pickup to the concave part of a traverse base, then take out the optical pickup.


Optical pickup
Concave part of traverse base
Convex part of optical pickup


Lens
Optical pickup

Note:
Do not touch the lens of the optical pickup

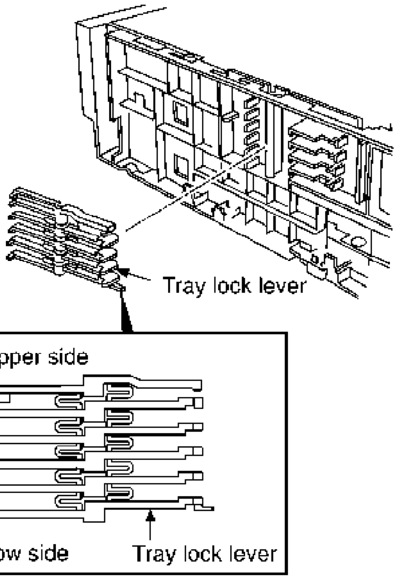
11.21. CR16 MECHANISM ASSEMBLY PROCEDURE

The following specified greases and/or oil must be applied when some specific parts are

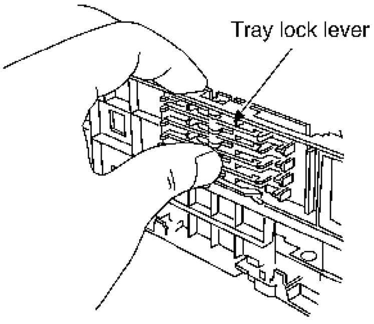
changed.

1. **Floil grease (VFK1298) : The floil grease must be applied to tray, tray (L) and tray (R).**
2. **Hanarl oil (VFK1700) : The hanarl oil must be applied to any parts with grease other than the said parts.**

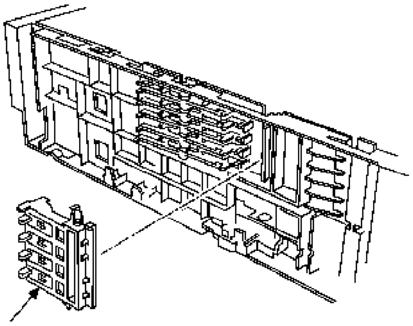
(Step 1)
Install the tray lock lever to mechanism base.


Tray lock lever
Upper side
Low side
Tray lock lever

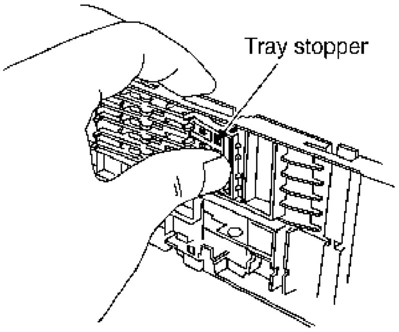
(Step 2)
Push the tray lock lever with a hand and install it.


Tray lock lever

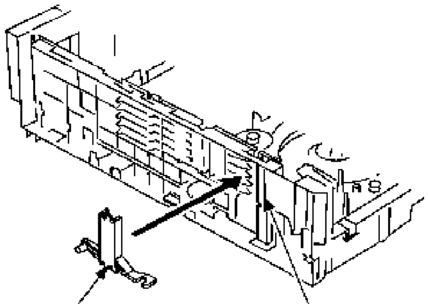
(Step 3)
Install the tray stopper to mechanism base.


Tray stopper

(Step 4)
Push the tray stopper with a hand and install it.

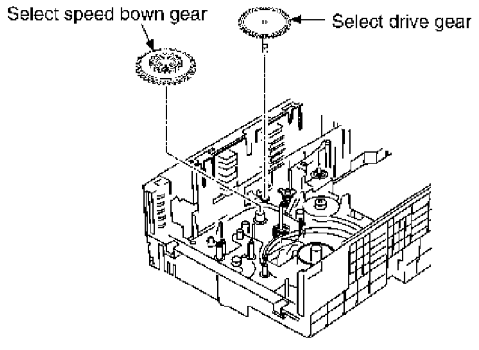

Tray stopper

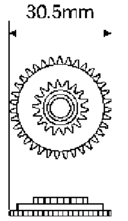
(Step 5)
Insert the select guide with a groove of the mechanism base and move it below.


Select guide
Groove

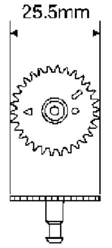
(Step 6)
Install the select speed down gear to mechanism base.

(Step 7)
Install the select drive gear to mechanism base.


Select speed bown gear
Select drive gear

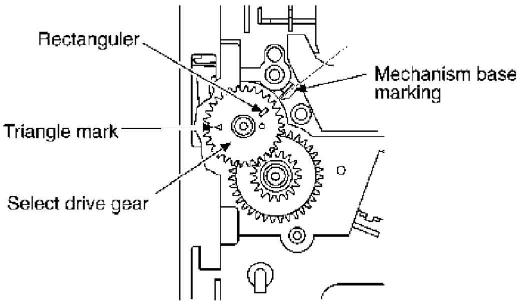


Select speed down gear
(White)



Select drive gear
(White)

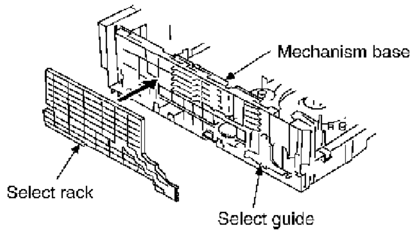
(Step 8)
Fit a mechanism base marking to the rectanguler mark of gear so that the triangle mark can indicate the sideward direction.


Rectanguler
Mechanism base marking
Triangle mark
Select drive gear

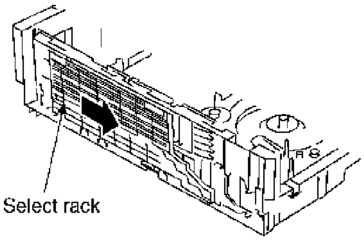
(Step 9)
Install the select rack to mechanism base.

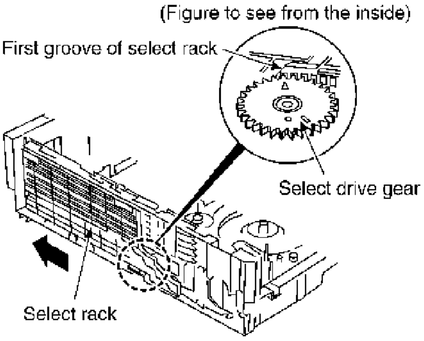
(Checking items before the installation.
1. Check select guide is completely in lowest position.
2. Check its phase of select drive gear is correct position.(Rectangle/Triangular mark)(Refer to Step 8))

1. Put a select rack down with it fitted to its circumference of mechanism base.


Mechanism base
Select rack
Select guide

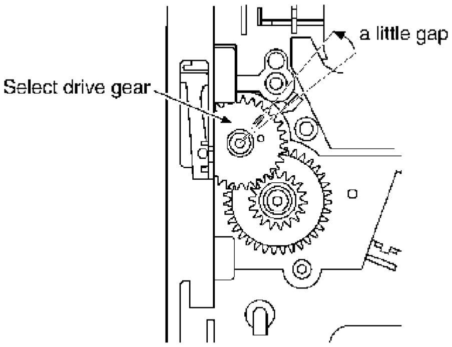
2. Slide the select rack with it's pushing to a little right direction and install it.


Select rack

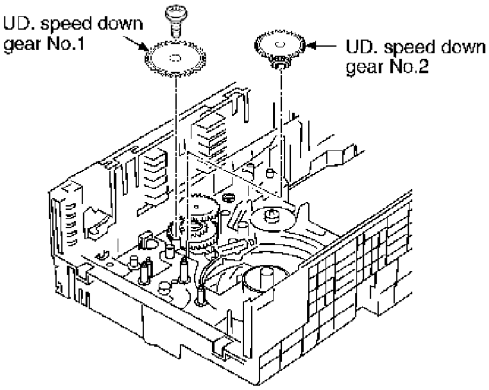

(Figure to see from the inside)
First groove of select rack
Select drive gear
Select rack

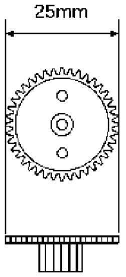
3. Check whether its end of triangular mark is in first groove of select rack, after fixing.
4. After insertion of select rack, continue the following work until the indication that it gose forward. And, all the while it must be checked that select rack is in the extreme end.

5. After insertion the select rack, the marking of select gear has a little gap when it is in the extreme end.

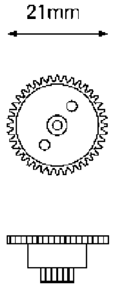

a little gap
Select drive gear

(Step 10)
Install the UD. speed down gear No.1 and UD. speed down gear No.2.


UD. speed down gear No.1
UD. speed down gear No.2

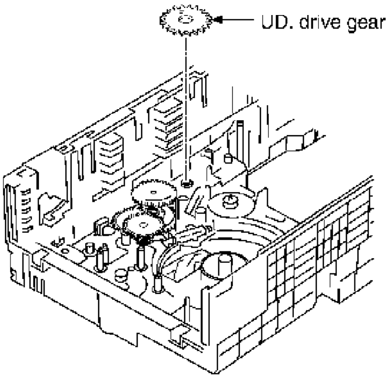


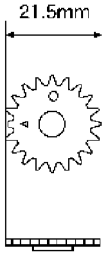
UD. speed down gear No.1
(White)



UD. speed down gear No.2
(Semi-transparent)

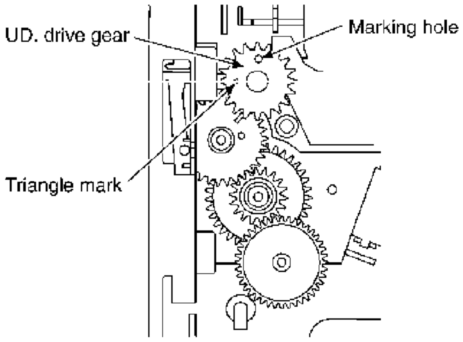
(Step 11)
Install the UD. drive gear to mechanism base.


UD. drive gear

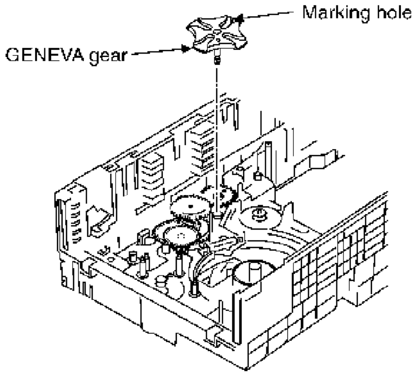


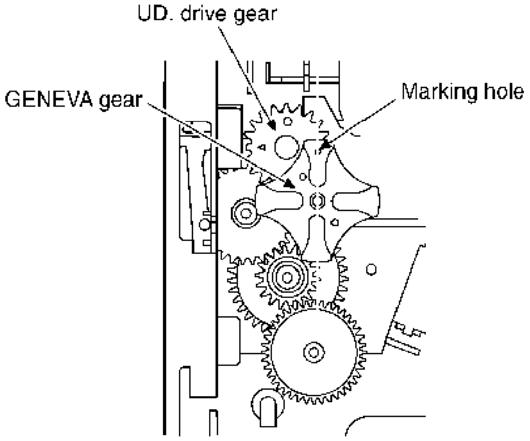
UD drive gear
(White)

(Step 12)
Insert the UD. drive gear with its marking hole upward.
At that time, its triangle mark should be sideways.


UD. drive gear
Marking hole
Triangle mark

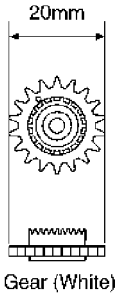
(Step 13)
Insert the GENEVA gear with its marking hole upward, and fix it by 2 hooks on bottom of mechanism base.
At that time, UD. drive gear mustn't be moved.

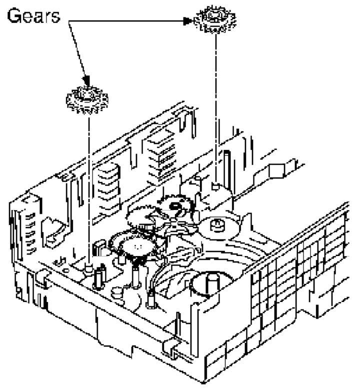

Marking hole
GENEVA gear


UD. drive gear
GENEVA gear
Marking hole

(Step 14)

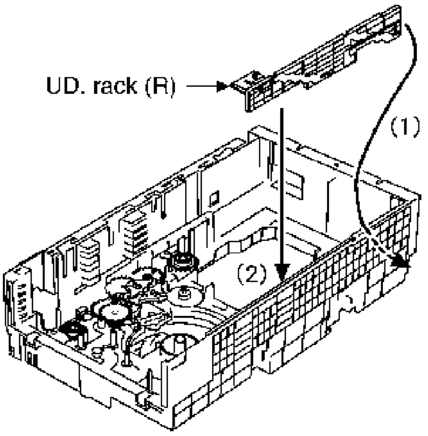
Install the 2 gears to mechanism base.


20mm
Gear (White)



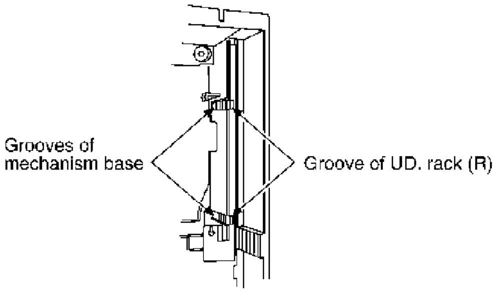
(Step 15)

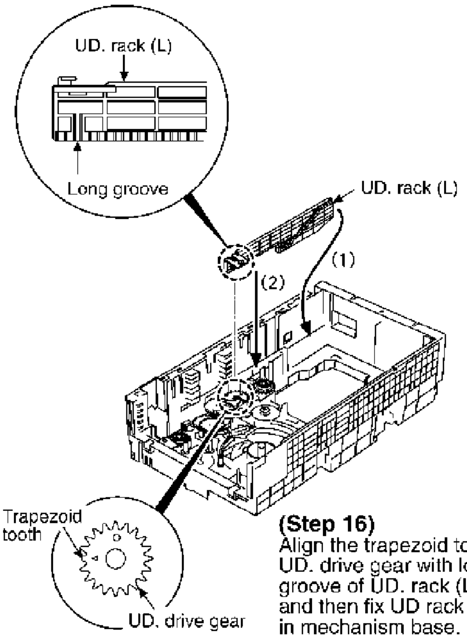
Insert the UD. rack (R) to (2) from arrow (1).



NOTE:

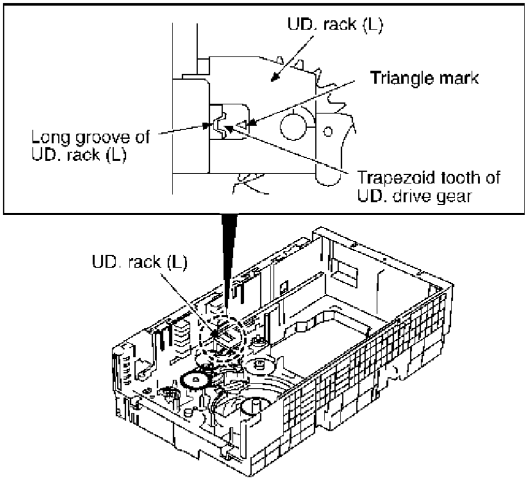
Put a groove of the mechanism base to the UD. rack (R).


Grooves of mechanism base
Groove of UD. rack (R)

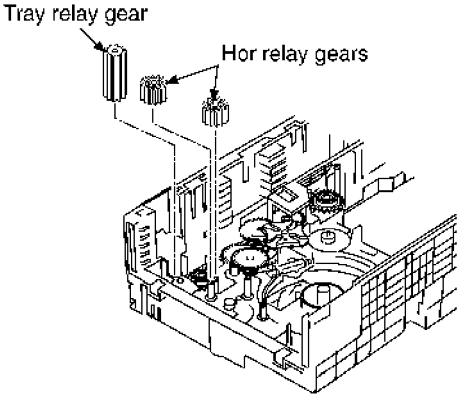

UD. rack (L)
Long groove
UD. rack (L)
(1)
(2)
Trapezoid tooth
UD. drive gear

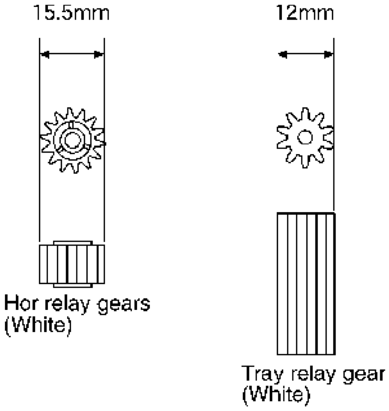
(Step 16)
Align the trapezoid tooth of UD. drive gear with long groove of UD. rack (L), and then fix UD rack (L) in mechanism base.

(Figure to see from the upper side)

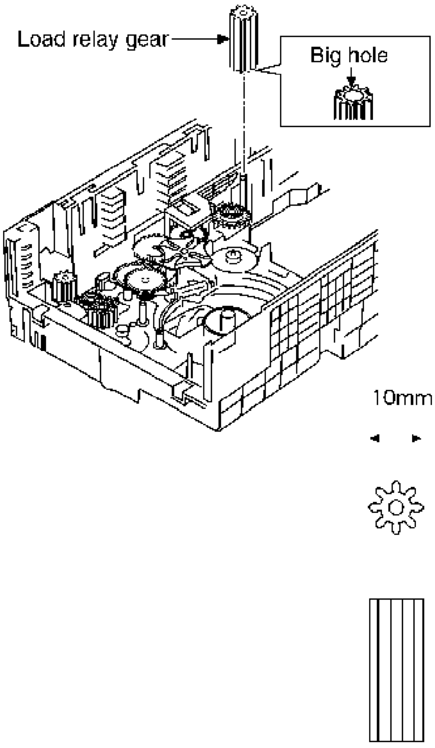

UD. rack (L)
Triangle mark
Long groove of UD. rack (L)
Trapezoid tooth of UD. drive gear
UD. rack (L)

(Step 17)
Install the tray relay gear and 2 hor relay gears.

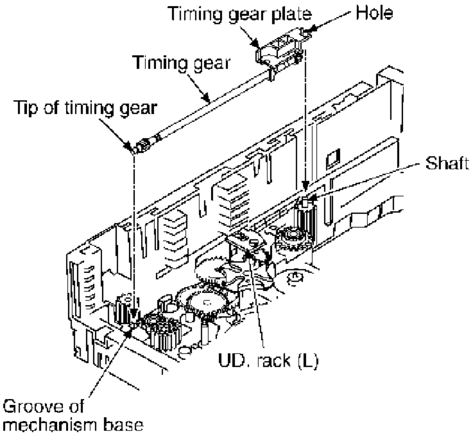

Tray relay gear
Hor relay gears


15.5mm
12mm
Hor relay gears
(White)
Tray relay gear
(White)

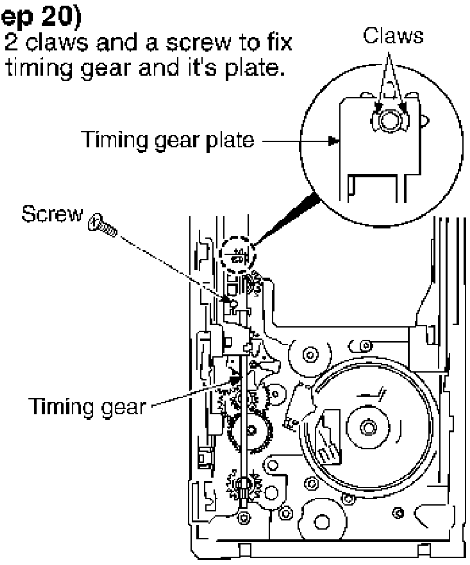
(Step 18)
Install the load relay gear to mechanism base.
(Fit load relay gear with its big hole downward.)


Load relay gear
Big hole
10mm
Load relay gear
(White)

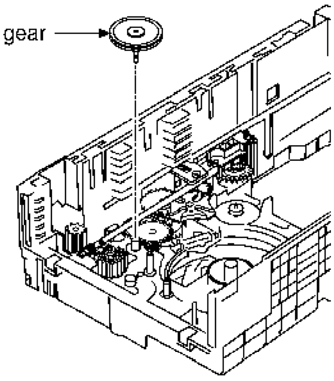
(Step 19)
Put on the top of the timing gear, then, install the timing gear and it's plate.
At that time avoid the UD. rack (L).

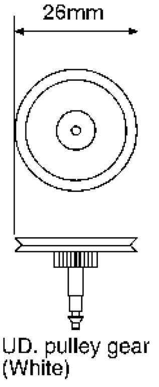

Timing gear plate
Hole
Timing gear
Tip of timing gear
Shaft
UD. rack (L)
Groove of
mechanism base

(Step 20)
Fix 2 claws and a screw to fix the timing gear and it's plate.


Claws
Timing gear plate
Screw
Timing gear

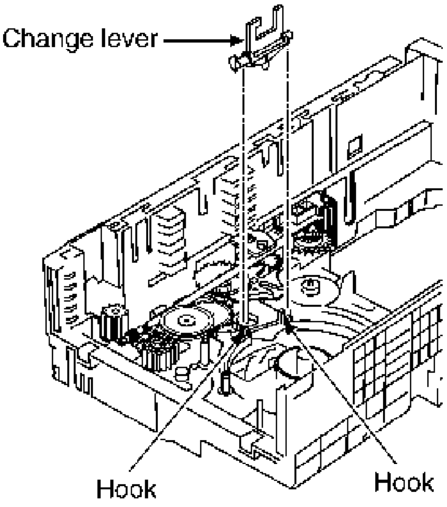
(Step 21)
Install the UD. pulley gear to mechanism base.


UD. pulley gear


26mm
UD. pulley gear
(White)

(Step 22)

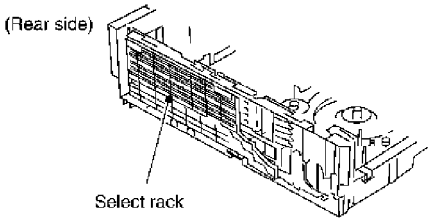
Insert the change lever with it upright.

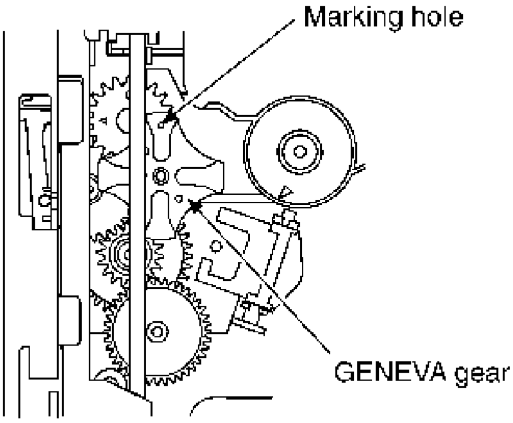

Change lever
Hook
Hook

(Step 23)

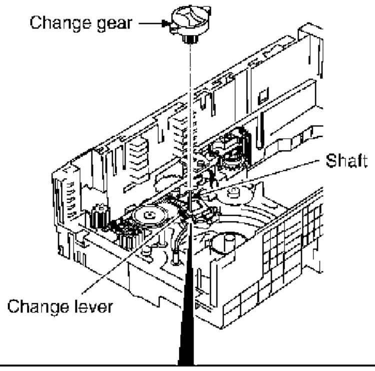
Be sure the notice of bellow before fixing the change gear.

1. Select track should be in the rear of mechanism base.
2. Its hole of GENEVA gear should turn up.

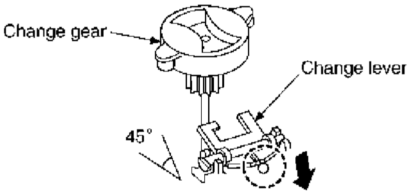

(Rear side)
Select rack


Marking hole
GENEVA gear

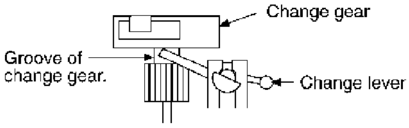
(Step 24)
Install the change gear as insert the change lever into the groove of change gear.


Change gear
Shaft
Change lever

1. Pushing the ○ part and pull up the change lever 45°.

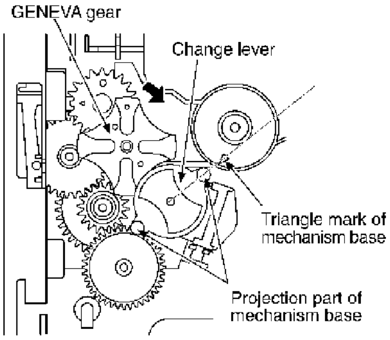

Change gear
Change lever
45°

2. Insert the change lever into the groove of change gear.


Change gear
Groove of change gear.
Change lever

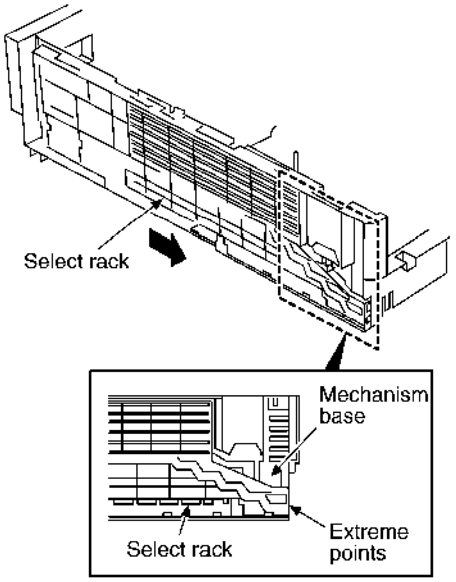
(Step 25)
Put change gear down with projection part of change gear fitted to triangle mark of mechanism base, when fixing change gear.
At that time, check change gear is inserted into the groove of change lever.

(Step 26)
Lastly, turn GENEVA gear clockwise slightly and drop change gear to mechanism base.


GENEVA gear
Change lever
Triangle mark of mechanism base
Projection part of mechanism base

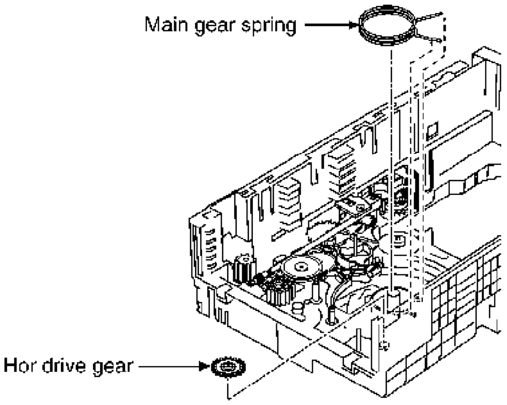
(Step 27)

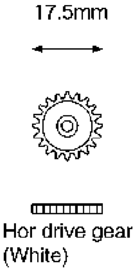
Move the select rack smoothly forward manually until 2 extreme points of both select track and mechanism base.


Select rack
Mechanism base
Extreme points
Select rack

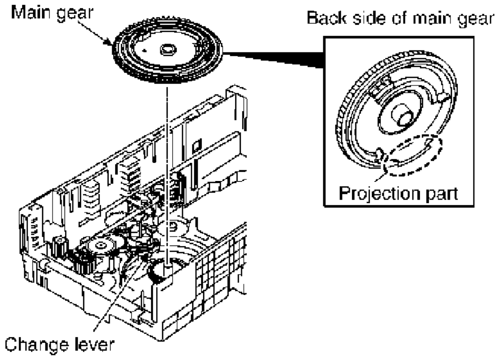
(Step 28)

Install the main gear spring and hor drive gear.

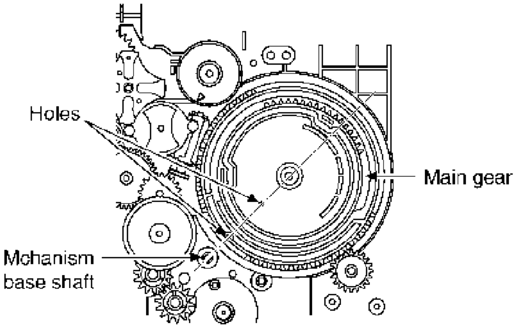

Main gear spring
Hor drive gear


17.5mm
Hor drive gear
(White)

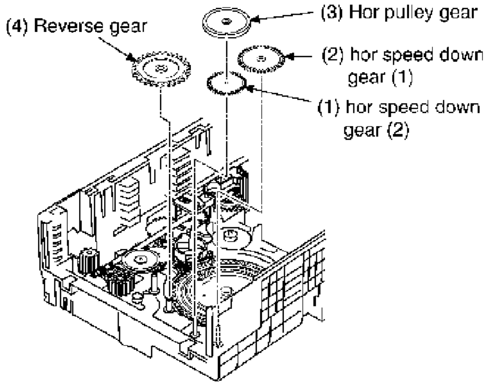
(Step 29)
Don't bring change lever into touch to projection part of main gear, when fixing main gear in mechanism base.

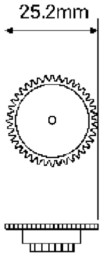

Main gear
Back side of main gear
Projection part
Change lever

(Step 30)
After that, turn main gear so that 2 holes inside main gear would be in alignment with mechanism base.

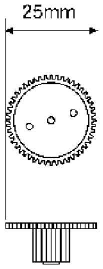

Holes
Main gear
Mchanism
base shaft

(Step 31)
Install the hor speed down gear (2), hor speed down gear (1), hor pullry gear and reverse gear.

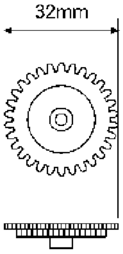

(4) Reverse gear
(3) Hor pulley gear
(2) hor speed down gear (1)
(1) hor speed down gear (2)



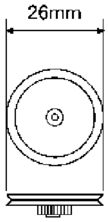
Hor speed down gear (2) (White)



Hor speed down gear (1) (Semi-transparent)



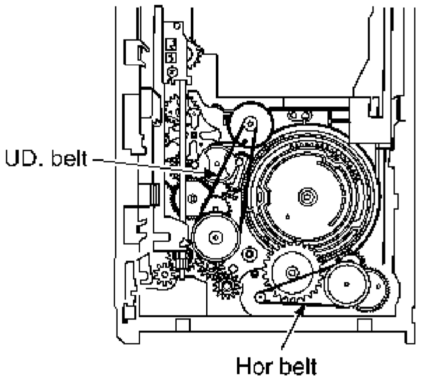
Reverse gear (White)



Hor pulley gear (White)

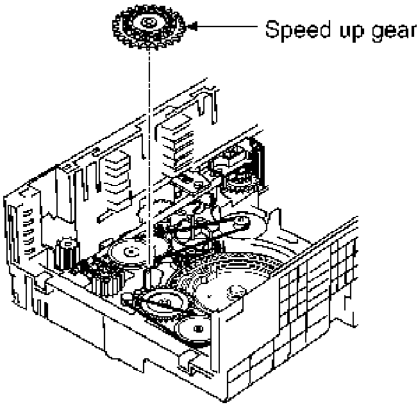
(Step 32)
Install the UD. belt and hor belt.

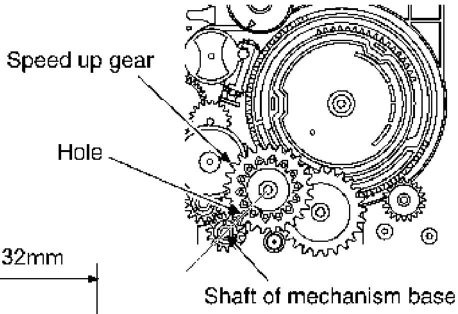
NOTE:
1. Take care not apply the grease to the belt.
2. Install the belt without twist.

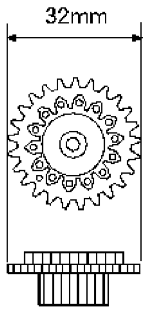

UD. belt
Hor belt

(Step 33)

Install speed up gear to its shaft of mechanism base with 2 fitting.


Speed up gear


Speed up gear
Hole
Shaft of mechanism base



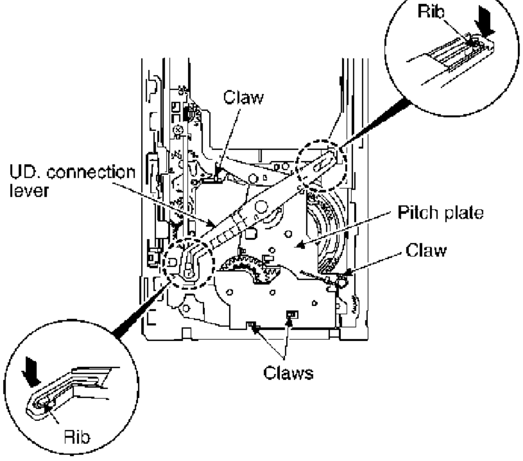
Speed up gear (White)

(Step 34)

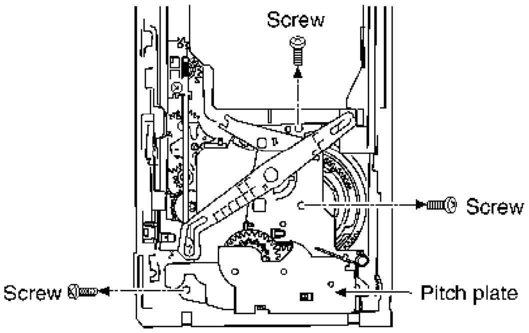
Install the pitch plate. (The 4 claws should be latched.)

(Step 35)

Fix 2 ribs of UD. rack (L) and (R) into groove of both ends of UD. connection lever.

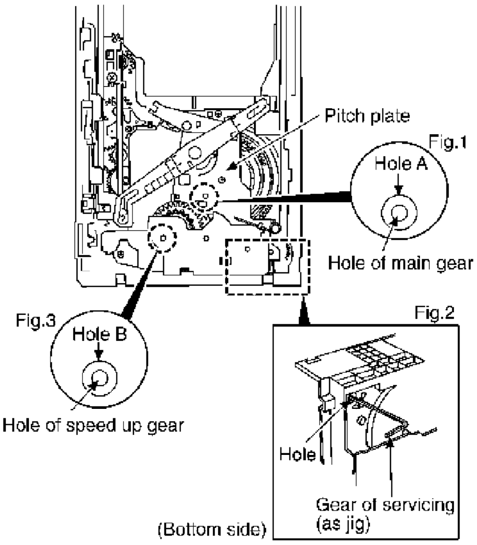

Rib
Claw
UD. connection lever
Pitch plate
Claw
Claws
Rib

(Step 36)
Fixed it by three screws further.

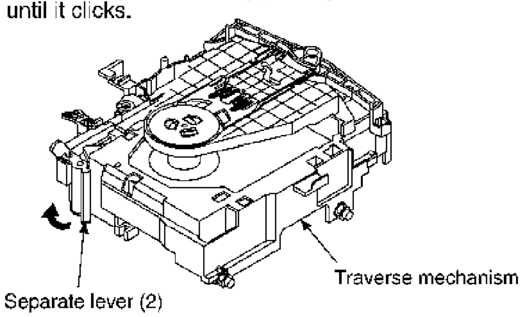

Screw
Screw
Screw
Pitch plate

(Step 37)
Be sure the notice of below before fixing the traverse mechanism.

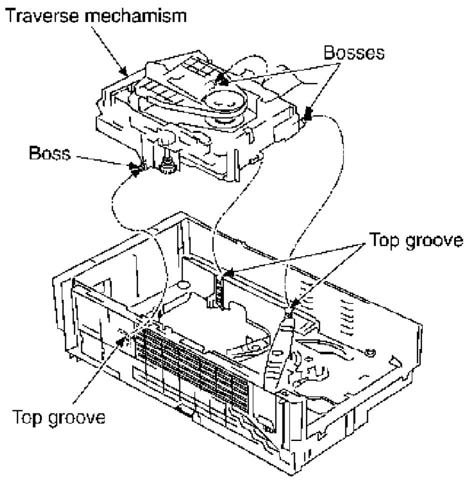
1. Check that 2 holes of both pitch plate and main gear is fitted. (Refer to Fig.1)
   If it's not fitted, put the gear for servicing in the hole of the bottom side and adjust it. (Refer to Fig.2)
2. Check that 2 holed of both pitch plate and speed up gear is futted. (Refer Fig.3)
   If it's not fitted turn the speed up gear to adjust it.


Pitch plate
Fig.1
Hole A
Hole of main gear
Fig.2
Fig.3
Hole B
Hole of speed up gear
Hole
Gear of servicing
(as jig)
(Bottom side)

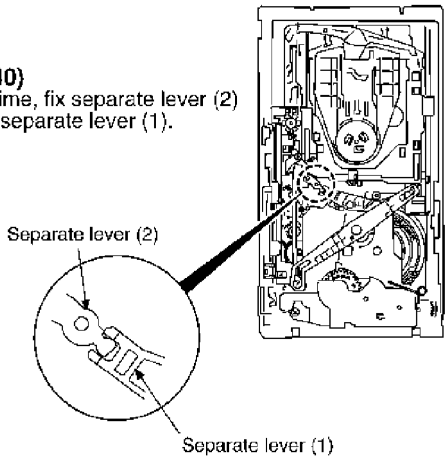
(Step 38)
Turn the separate lever (2) slowly toward left side until it clicks.


Traverse mechanism
Separate lever (2)

(Step 39)
Fix the left boss into the top groove of the UD. rack (L) and fix 2 bosses into the groove of the UD. rack (R).


Traverse mechamism
Bosses
Boss
Top groove
Top groove

(Step 40)
At that time, fix separate lever (2) into the separate lever (1).


Separate lever (2)
Separate lever (1)

(Step 41)
After the traverse mechanism fixed,
confirm the phase in order below.

1. Check that 2 holes of both pitch plate and main gear is fitted. (Refer to Fig.1)
   If it's not fitted, put the gear for servicing in the hole of the bottom side and adjust it. (Refer to Fig.2)
2. Check that 2 holed of both pitch plate and speed up gear is futted. (Refer Fig.3)
   If it's not fitted turn the speed up gear to adjust it.

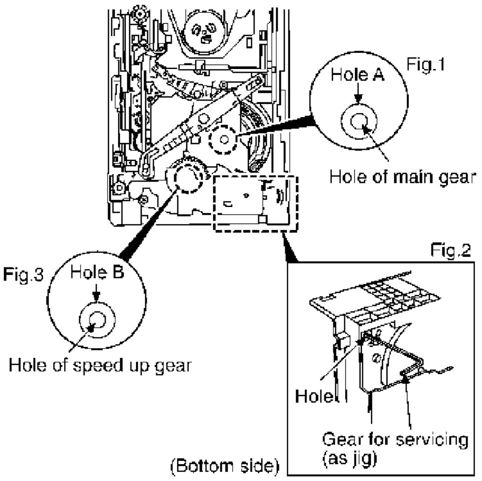
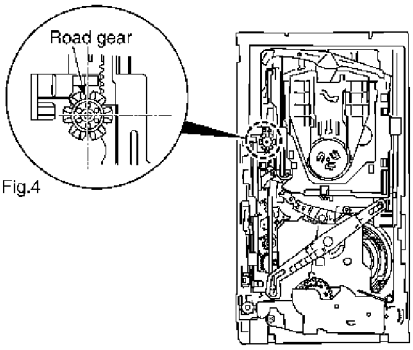
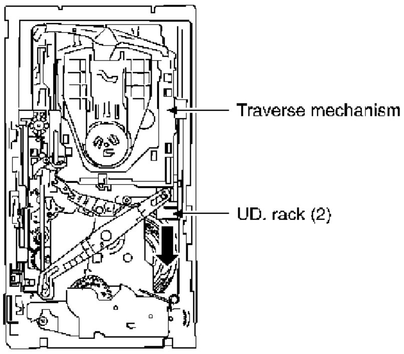


Fig.1
Hole A
Hole of main gear
Fig.2
Hole
Gear for servicing (as jig)
Fig.3
Hole B
Hole of speed up gear
(Bottom side)

3. In the cog of road gear, the groove with it's cutting halfway set side ward. (Refer to Fig.4)
   Remove the traverse mechanism again when it is not set side ward and install it after adjustment of inserting position.
   NOTE: By this time, do not adjust to rotate the road gear.

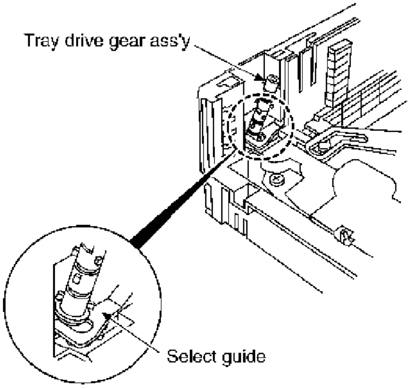

Road gear
Fig.4

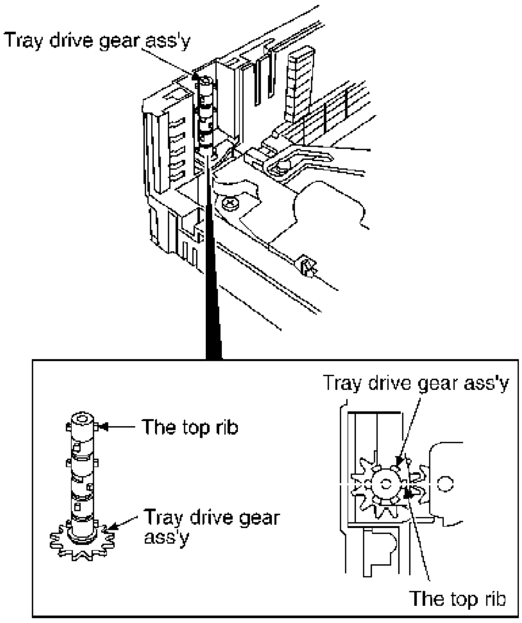
(Step 42)
After insertion of traverse mechanism, pull the UD. rack (R) on this side that each phase is "OK" and then lock the traverse mechanism.


Traverse mechanism
UD. rack (2)

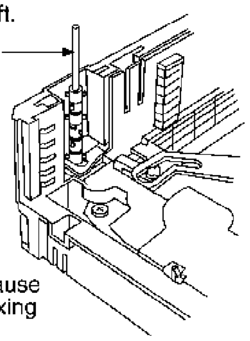
(Step 43)
Install the tray drive gear to select guide.
(Install the top rib of the tray drive gear with side ward.)

NOTE:
Confirm the each phase surely before install the tray drive gear. (Refer to Step 41).


Tray drive gear ass'y
Select guide

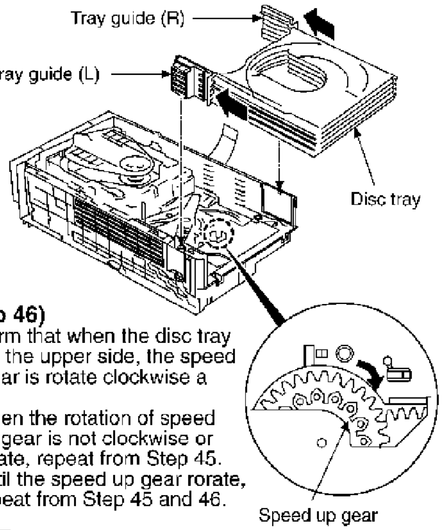

Tray drive gear ass'y
Tray drive gear ass'y
The top rib
Tray drive gear ass'y
The top rib

(Step 44)
Insert the tray gear shaft.


Tray gear shaft

NOTE:
Be careful to handle it because the shaft is yet to fix until fixing top cover.

(Step 45)
Move the tray guide (R) and (L) to direction of arrow that fixed (stopped) it and install 5 pieces of disc tray.

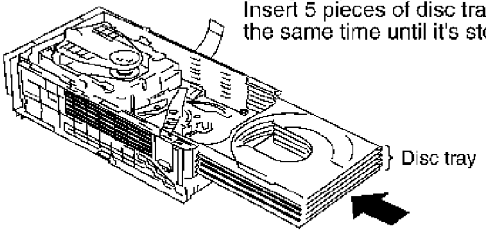

Tray guide (R)
Tray guide (L)
Disc tray
Speed up gear

(Step 46)
Confirm that when the disc tray insert the upper side, the speed up gear is rotate clockwise a little.

- When the rotation of speed up gear is not clockwise or rotate, repeat from Step 45.
- Until the speed up gear rorate, repeat from Step 45 and 46.

NOTE:
While keeping all postion, install 5 pieces of disc tray.

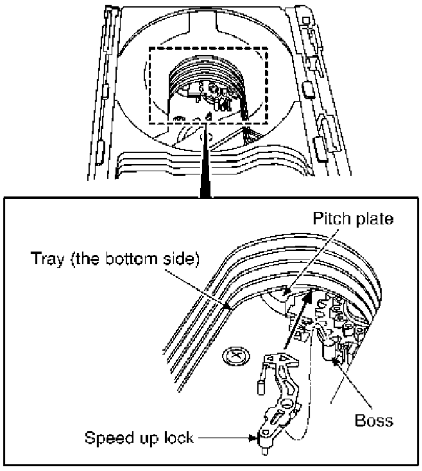
(Step 47)
Insert 5 pieces of disc tray at the same time until it's stop.



(Step 48)
Turn the traverse side 180°.

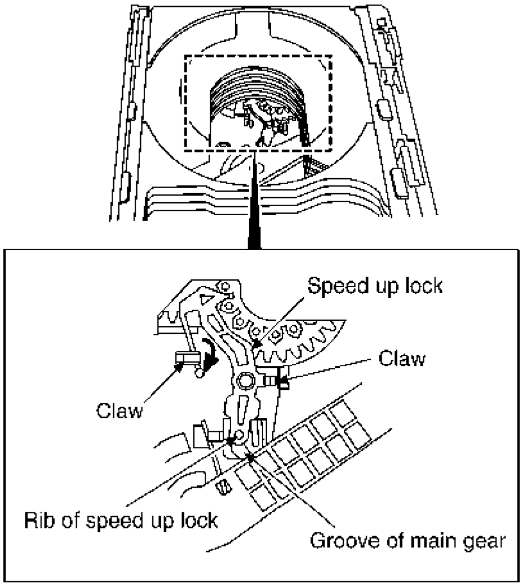
(Step 49)
While install the tip of speed up lock beween tray (No.1) of the most lower side and pitch plate for the time being.
(Do not to insert the cog of speed up gear),insert it to boss.

NOTE:
At that time, do not move the tray.
(See the tray the most front side)


Pitch plate
Tray (the bottom side)
Boss
Speed up lock

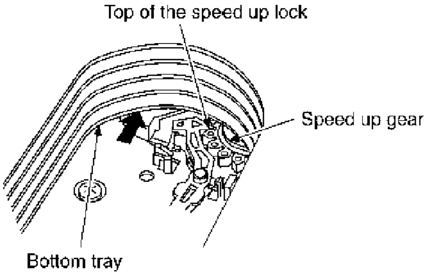
(Step 50)

Insert the rib of speed up lock into a groove of main gear, and lock it with 2 claws.


Speed up lock
Claw
Claw
Rib of speed up lock
Groove of main gear

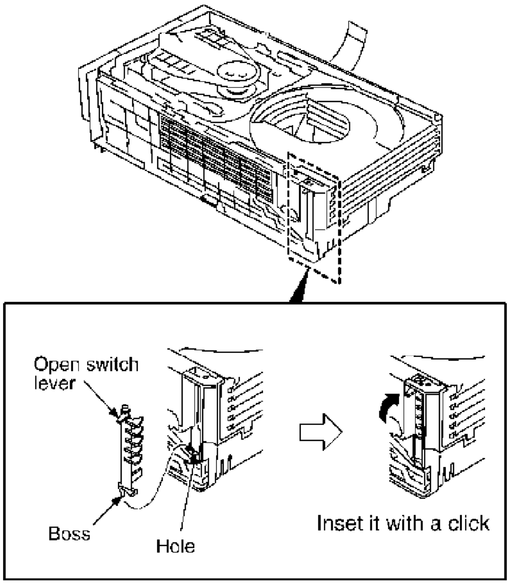
(Step 51)

Move the bottom tray to the arrow while pushing the top of the speed up gear. And insert it to a cog of the speed up gear.


Top of the speed up lock
Speed up gear
Bottom tray

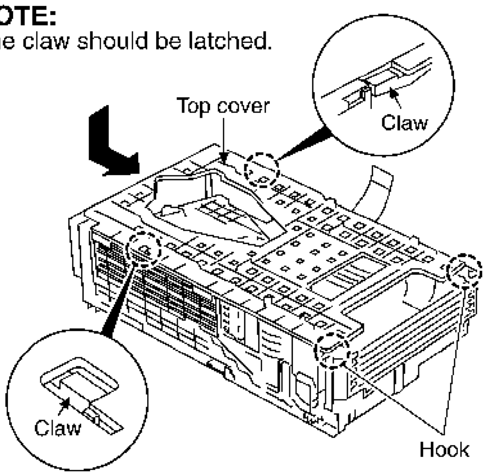
(Step 52)

Install the open switch lever.
(Put the boss into the hole of the mechanism base.)


Open switch lever
Boss
Hole
Inset it with a click

(Step 53)
Install the top cover.
Fix it into hooks and slide direction to the arrow.

NOTE:
The claw should be latched.

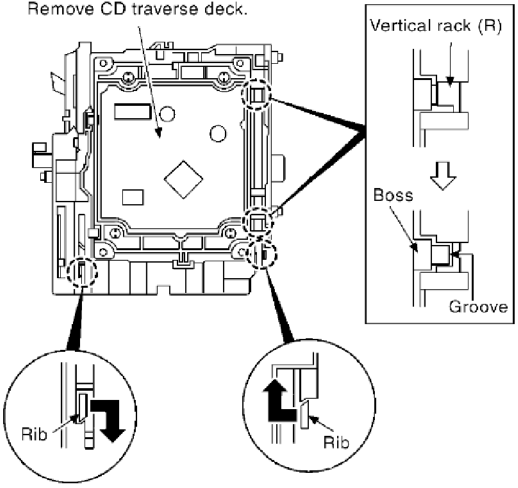

Top cover
Claw
Claw
Hook

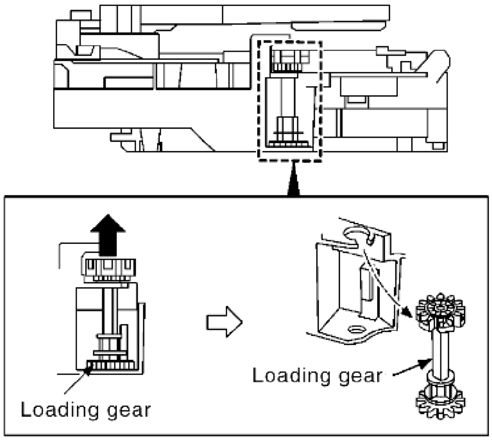
11.22. Disassembly for Traverse Unit

- **Follow the (Step 1) - (Step 10) of item 11.19.2.**
- **Follow the (Step 1) - (Step 3) of item 11.19.3.**
- **Follow the (Step 1) - (Step 7) of item 11.13**
- **Follow the (Step 1) - (Step 7) of item 11.14**

Step 1
Shift ribs of both side to the arrow direction.
(A vertical rack (R) slides and groove opens)

Step 2
Remove CD traverse deck.

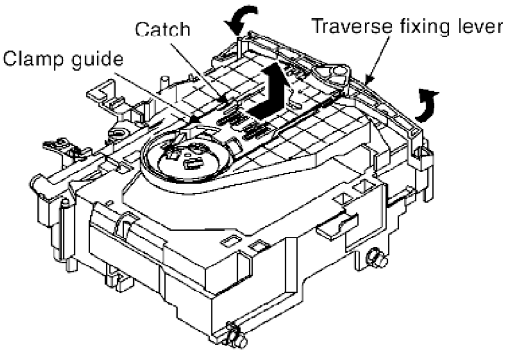

Vertical rack (R)
Boss
Groove
Rib
Rib

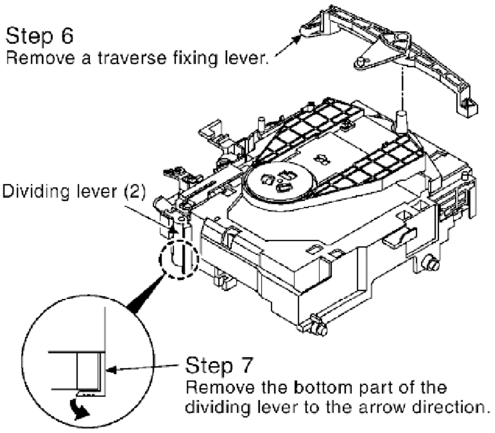

Loading gear
Loading gear

Step 3
Lift a loading gear slightly and pull out.

Step 4
Fixing lever to the arrow direction, rotate a traverse.

Step 5
Remove catch and take out a clamp guide.

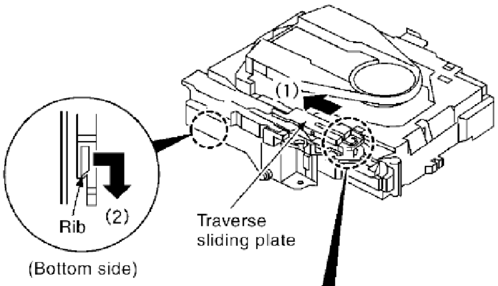

Catch
Traverse fixing lever
Clamp guide


Step 6
Remove a traverse fixing lever.

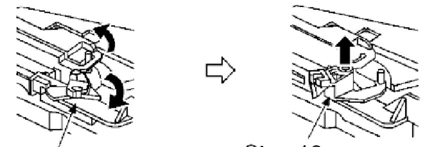
Dividing lever (2)

Step 7
Remove the bottom part of the dividing lever to the arrow direction.

Step 8
Slide a traverse sliding plate to the arrow direction (1), and shift a rib to the arrow direction (2).

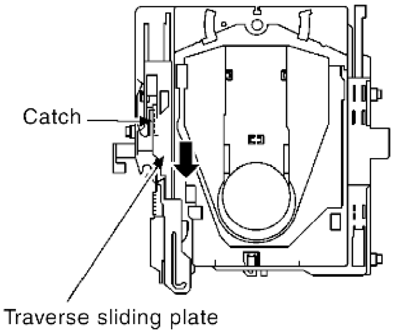

(1)
Rib
(2)
Traverse sliding plate
(Bottom side)

Step 9
Shifting a traverse sliding plate slightly and rotate a tray change lever.


Tray change lever

Step 10
Remove a tray change lever.

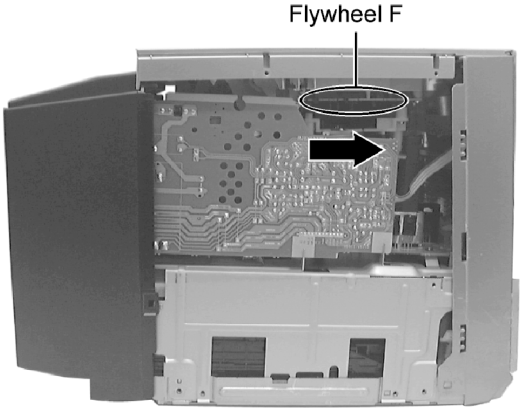
Step 11
Holding the catch down, slide a traverse sliding plate to the arrow direction and remove it.


Catch
Traverse sliding plate

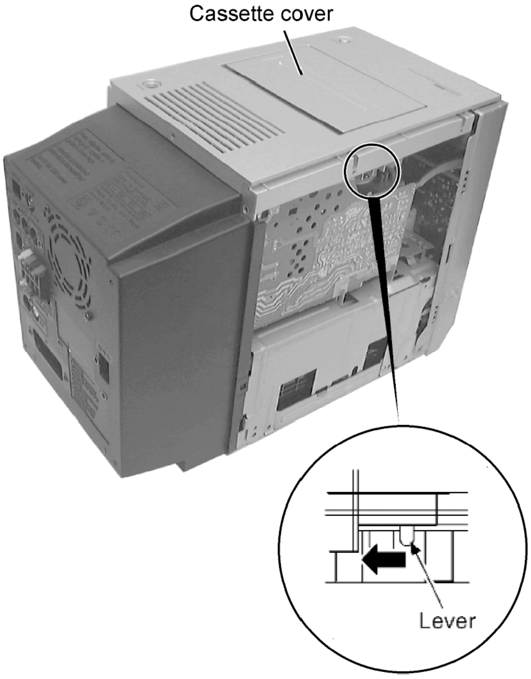
11.23. Handling of cassette tape jam

- Follow the (Step 1) - (Step 4) of Item 11.2.

Step 1 If the cassette tape is not ejected due to twining around capstan or pinch roller during playing or recording, rotate a flywheel F to the arrow direction to remove twined tape.



Step 2 Push the lever to the arrow direction, open the cassette cover and take out the cassette tape.



12. Self-Diagnosis Function

This unit is equipped with the self-diagnosis function, which displays an error when it occurs, for use during servicing.

12.1. Automatic Displayed Error Codes

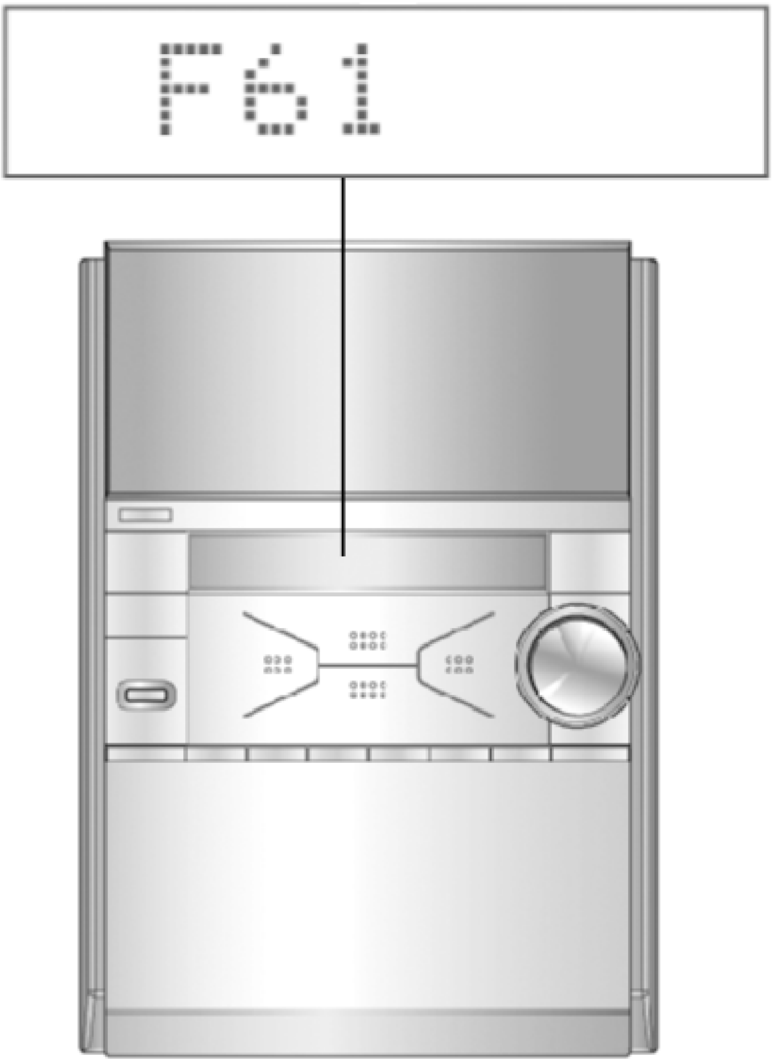
12.1.1. Automatic Display Function

For a power unit error, the code is automatically displayed.

F61:

Automatically displayed on the LCD of the player.

Fig. 12-1



12.1.2. Re-Display

- For F61 Display
- When the code, F61 is displayed, the power is automatically turned off.
- The code, F61 is displayed for three seconds, and then the current time appears.
- To retrieve the code, turn on the power button so that the code F61 appears, however, is switched to time display after three seconds, and the power is automatically turned off.
- For F76 Display
- The abnormalities of an output or abnormalities in the power supply of POWER AMP IC.

12.1.3. Description of Error Code

12.1.3.1. F61

- State, Condition

  When the power is turned on, the unit is automatically turned off. The power does not turn on.

- Cause, Troubleshooting

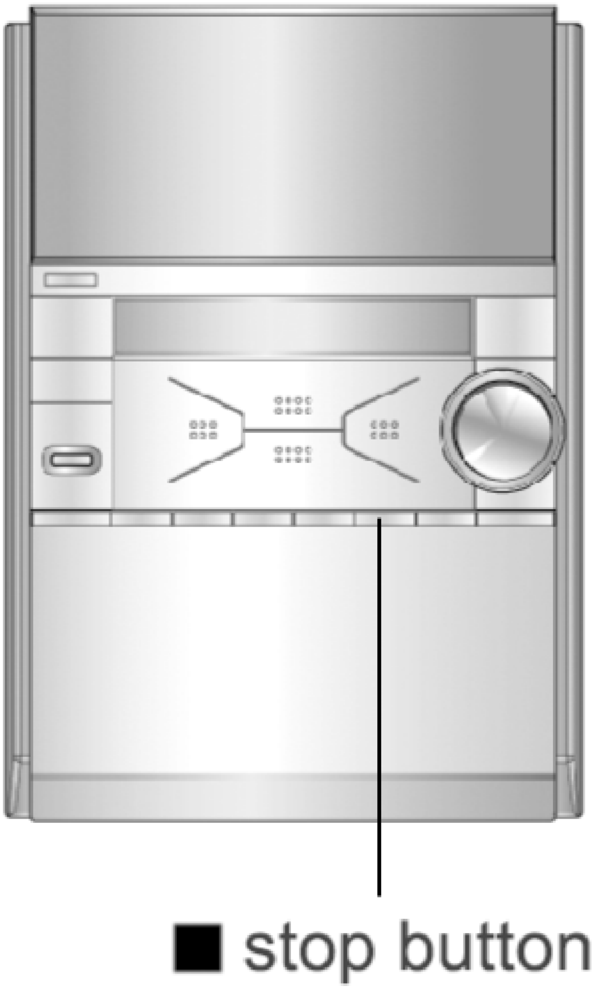
  Power circuit system failure and/or direct current flown to speaker terminal / Identify the cause and replace with new parts.

12.2. Memorized Error Codes

12.2.1. Activating Self-Diagnosis Function and Displaying Method

1. Turn on the power.
2. Select DVD/CD function. With no DVD/CD inserted in the player, press and hold down the ■ button for at least two seconds, and press the “0” button on the remote control for at least two seconds in order to display “DVD_F_ _ _ ”.
3. Press the ■ button. If a memorized error is detected, the result of self diagnosis is displayed. (Ex.: T H15) / If several errors are detected, press the ■ button to display each.

Fig. 12-2



12.2.2. Re-Display

- **Press the power button to turn off the power, and then turn on the power.**
- **The details of self diagnosis are stored in the unit memory. / To retrieve them, follow the procedure described the above, "Activating Self-Diagnosis Function and Displaying Method".**

12.3. Service Mode Table 1

Following modes are available with combinations of the pressed buttons on the player and on the remote controller unit.

Player	Remote controller unit	Usage
■ button	0	Error code display (Refer to the item, 9.4. DVD Error Code Descr
	5	Tilt adjustment
	6	Region number and broadcasting system check
	7	Built-in program version check
	DISPLAY	DVD laser drive current check
	3	CD laser drive current check
	PAUSE	Writing of laser drive current value after replacement of optical (Do use this function only when optical pickup is replaced.)
	≥10	Initialization of the player (factory setting is restored.) / Used aft replacement of micro-computer and its peripherals and printed board.

12.4. DVD/CD Self-Diagnosis Error Code Description

Error Code	State, Conditon	Cause, Troubleshooting
H15	The disc tray cannot be opened: it closes spontaneously.	Disc tray open/close detection switch (S failure. / (Check and replace)
H16	The disc tray cannot be closed: it opens spontaneously.	

Error Code	Meaning	Details
U. H. Error		
U11	Focus servo failure	
H01	Tray loading failure	
H02	Spindle servo failure	(Spindle servo, DSC, SP motor, CLV ser
H03	Traverse motor failure	
H04	Tracking servo error	
H05	Seek timeout failure	
Decoder related		
F220	Y level adjustment failure	Brightness signal level adjustment cann properly operated
F221	C level adjustment failure	Color signal level adjustment cannot be operated
II C error		
F4FF	Compulsory initialization failure (time out)	
DSC related		
F500	DSC error	DSC stops due to servo failure. (Startup, failure, etc.)
F501	DSC not ready	Communication failure between DSC an computer (No communication because not move)
F502	DSC time out failure	See F500

Error Code	Meaning	Details
F503	DSC communication failure	Communication failure (Result failure oc communication command is transmitted
F504	Data slice offset adjustment failure	Not in use. (FEP error)
F505	DSC Attention Error	see F500.
F506	Invalid media	Disc is placed upside down; TOC is unre invalid disc is inserted.
ODC related		
F600	Control information unattainable due to demodulation error	Operation stops because navigation dat be obtained due to demodulation system
F601	Unknown sector ID requested	Operation stops because access of illeg is requested.
F602	LEAD-IN unattainable due to demodulation error	Unable to read LEAD IN data
F603	KEYDET unattainable due to demodulation error	Unable to obtain CSS data
F610	ODC failure	No permission of command issue
F611	6626 QCODE don’t read ERROR	Unable to obtain seek address at CD sys
F612	No CRC OK during a certain time of duration	Unable to obtain ID data at DVD system
F630	No response to KEY DET makeshift	(Internal use)
F631	CPPM KEY DET unavailable to FILE end terminal	CPPM fail system cannot be read due to
F632	CPPM KEY DET unavailable	Revoke or altered.
Microcomputer error		
F700	MBX overflow	When replying a message to Disc Manag (Operation continues)
F701	Message command incomplete	A message is issued before replying to D Manager.
F702	Message command changed	A message is issued before replying to D manager.
F710	AD conversion at AN0 incomplete	Conversion cannot be complete within a designated time during check of AD con before Y/C automatic adjustment.
F711	AD conversion at AN1 incomplete	Conversion cannot be complete within a disignated time during check of AD conv before Y/C automatic adjustment.
F712	AD conversion at AN0 dispersed	Conversion result exceeds standards wh designated value is set during check of A conversion before Y/C automatic adjustm
F713	AD conversion at AN1 dispersed	Conversion result exceeds standards wh designated value is set during check of A conversion before Y/C automatic adjustm
F720	DA conversion at AN0 unchangeable	Conversion result exceeds standards wh designated value is set during check of A conversion before Y/C automatic adjustm

Error Code	Meaning	Details
F721	**DA conversion at AN1 unchangeable**	**Conversion result exceeds standards ex standards while a designated value is se check of AD conversion before Y/C auto adjustment.**
F880	**Unsuitable task number**	**When a message arrives from not existi (error stops)**
F890	**A message is sent during AV task transmission**	**During transmission of a message to AV (error stops)**
F891	**Unable to transmit a message to AV task**	**When a message starts transmission to (error stops)**
F893	**From altered**	
F894	**EEPROM failure**	
F895	**PERR JMP MI SMUCH**	**Firm device incompatible (non-conforma destination value)**
F896	**PERR JMP NON**	**Firm device incompatible (non existing j**
F897	**PERR NO INIT**	**Initialization incomplete**
F8A0	**Unsuitable message command**	**When a message starts transmission to (error stops)**

12.5. Error Codes Stored During No Play

Error Code	Meaning	System Computer Item	Setting Task	Inte in c
F0BF	**6) Unable to replay due to physical layer identification failure**	**PCND_NOPLAY_PHYSICAL 0x50**	**DriveManager**	**0xD**
F0C0	**8) DVD: Unable to replay due to no DVD Video/Audio/VR**	**PCND_NOPLAY_VIDEO 0x70**	**DiscManager**	**0xD**
F0C1	**9) DVD: Prohibited due to illegal regional code**	**PCND_NOPLAY_RCD 0x80**	**DiscManager**	**0xD**
F0C2	**A) DVD: No replay due to PAL system**	**PCND_NOPLAY_PAL 0x90**	**DiscManager**	**0xD**
F0C3	**B) DVD: All title replay prohibited in parental setting**	**PCND_NOPLAY_PTL 0xA0**	**DiscManager**	**0xD**
F0C4	**C) VCD: Prohibited due to PHOTO CD format**	**PCND_NOPLAY_PHOTOCD 0xB0**	**DiscManager**	**0xD**
F0C5	**D) VCD/CD: Prohibited due to CD-ROM without CD-DA**	**PCND_NOPLAY_CDROM 0xC0**	**DiscManager**	**0xD**

12.6. Service Mode Table 2

Following modes are available with combinations of the pressed buttons on the player and on the remote controller unit.

Item	Operational Condition and Key Function	Details	Display	To E
Jitter display	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button, “5” on the remote controller unit.	Jitter display / Measures and displays jitter. Measurement is repeated every second. Read error counter starts at 0 at the mode setting, and increased by one as data read fails at target block. A small defect is allowed to correct by retry. Any possibility is counted as one increment. Repetitive errors after retry increase by two levels or more.	xxx*1 _yyy*2 _zz*3 / / *1 : Jitter display mode / *2 : Jitter measurement value / *3 : Read error counter / *4 : Focus driving value Values are shown to one decimal place in the decimal digit.Focus driving value is displayed in the hexadecimal digit.	Pres STO
Error code display	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button, “0” on the remote controller unit.	Error code display / Displays the latest error code stored in EEPROM.	DVDnn_F--- / *nn: Error history / *--: Error number	Auto exits mod five s
Measurement of laser current electricity initialization value	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the ❚❚ button on the remote controller unit.	Measurement of laser current electricity initialization value / Memorizes each initialization value of DVD and CD in EEPROM.	LDO*1 _034*2 _028*3 / / *1 : Laser current electricity measurement mode / *2 : DVD current electricity value / *3 : CD current electricity value Values are shown in the decimal digit. The above example indicates that the current electricity initialization value is 34mA at DVD laser and 28mA at CD laser when laser is turned on.	Auto exits mod five s

Item	Operational Condition and Key Function	Details	Display	To E
Measurement of DVD laser current electricity	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the DISPLAY button on the remote controller unit.	Measurement of DVD laser current electricity / Measures DVD laser current electricity and displays the result together with the initialization value stored in EEPROM. After measurement, DVD laser is lit till the power is turned off (or goes off when the primary power is turned off).	LDD*1 _034*2 _032*3 / / *1 : DVD laser current electricity measurement mode / *2 : Current electricity initialization value stored in EEPROM / *3 : Present value of current electricity Values are shown in the decimal digit. The above example indicates that the current electricity initialization value is 34mA and its present value is 32mA.	Auto exits mod five s
ADSC internal RAM display	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button “1” or “2” on the remote controller unit.	ADSC internal RAM display / Reads and displays the RAM value inside ADSC. The address is renewed when the CLEAR key is pressed so that the values at eleven points appear.	A*1 _0FA*2 _6901*3 / / *1 : ADSC internal RAM display mode / *2 : Address / *3 : RAM value at displayed address Values are shown in the hexadecimal digit. The above example indicates that ADSC value at the address, 0FAh is 6901h.	Pres STO
Measurement of CD laser current electricity	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button “3” on the remote controller unit.	Measurement of CD laser current electricity / Measures CD laser current electricity and displays the result together with the initialization value stored in EEPROM. After measurement, CD laser is lit till the power is turned off (or goes off when the primary power is turned off).	LDC*1 _028*2 _026*3 / / *1 : CD laser current electricity measurement mode / *2 : Current electricity initialization value stored in EEPROM / *3 : Present value of current electricity Values are shown in the decimal digit. The above example indicates the current electricity initialization value is 28mA and its present value is 26mA when laser is turned on.	

Item	Operational Condition and Key Function	Details	Display	To E
User initialization	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button ≥10 on the remote controller unit.	User initialization / The user setting recovers the factory setting.	“INITIALIZE”	Auto exits mod five
Region display	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button, “6” on the remote controller unit.	Region display	[srrrxxyzzzz] / / s : Panecon model type / rrr : Panecon release number / x : Syscon generation (45) / y: Syscon model type / zzz : Syscon release number	Auto exits mod five
Firm version display	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button, “7” on the remote controller unit.	Firm version display	rrr^{*1} _xx^{*2} y^{*3} zzz^{*4} / / ^{*1} : Panel computer release number / ^{*2} : System computer generation / ^{*3} : System computer model type / ^{*4} : System computer release number	Auto exits mod five

Item	Operational Condition and Key Function	Details	Display	To E
Region and firm display	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the number button, “8” on the remote controller unit.	Region and firm version display	_r*1 __xx*2 y*3 zzz*4 / / *1 : Region number / *2 : System computer generation / *3 : System computer model type / *4 : System computer release number	Auto exits mod five
Laser use time	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the ∧ button on the remote controller unit.	Laser usage time / Measures each for DVD and CD respectively.	T1_1234_5678 / / The numbers in the left show usage time for DVD laser and those in the right for CD laser. The four-digit number is shown by the ten hours in the decimal digit. The number after 0000 is 9999.	Auto exits mod five
Reset laser use time	While the usage time 1 is displayed, press and hold down the ■ button on the player and the ∨ button on the remote controller unit.	Laser usage time reset / Resets both for DVD and CD at once.	T1_0000_0000	Auto exits mod five

Item	Operational Condition and Key Function	Details	Display	To E
Spindle use time	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the ▶ button on the remote controller unit.	Spindle motor usage time	T2_1234 / / The four-digit number is shown by the ten hours in the decimal digit. The number after 0000 is 9999.	Auto exits mod five s
Reset spindle use time	While the usage time 2 is displayed, press and hold down the ■ button on the player and the ◀ button on the remote controller unit.	Usage time 2 reset / Spindle motor usage time	T2_0000	Auto exits mod five s
Communication error display /	While the player is stopped and no disc is inserted, press and hold down the ■ button on the player and the MENU button on the remote controller unit.	Displays frequency of communication errors between system computer firm IC and mechanical computer IC during DVD module.	-ERR_00/30	Auto exits mod five s

12.7. Tray Lock Function

12.7.1. Setting

- Disc Lock Function

1. With the SELECTOR on DVD/CD and POWER ON, hold down the

[■ STOP] KEY on the main unit, and then press the [POWER] KEY on the remote control for 3 seconds to enter to Lock mode A.[_ _ _LOCKED_] will be displayed for 3 seconds, and then current disc will begin playing.

2. **In Lock mode A, the following key is disabled. [OPEN/CLOSE]**

- Operation Lock Function

1. **With the SELECTOR on DVD/CD and POWER ON, hold down the [CD PLAY] KEY on the main unit, and then press the [POWER] KEY on the remote control for 3 seconds to enter Lock mode B. [_ _ _ LOCKED_] will be displayed for 3 seconds, and the current disc will begin playing.**
2. **Lock mode B primarily controls the selector and disc operations, and disenables for the following keys.**

Note:

OPEN/CLOSE ⏏ button are invalid and the player displays "___LOCKED_" while the lock function mode is entered.

- Prohibiting operation of selector and disk

1. **Select the DVD/CD function.**
2. **Press and hold down the ▶ button on the player and the power button on the remote controller unit for at least three seconds. (The message, "___LOCKED_" appears when the function is activated.)**

Note:
The following buttons are invalid and the player displays "___LOCKED_" while the lock function mode is entered.

Main unit: PLAY, PAUSE ▮▮, STOP ■, ⏏OPEN/CLOSE , ∨SKIP∧,
DISC EXCHANGE , ⏮ /REVERSE , ⏭ /FORWARD
Remote control: PLAY MODE , CANCEL , PLAY, MENU ,
TOP MENU , ENTER

12.8. Things to Do After Repair (Precaution)

Follow the procedure described below after repair.

1. While the power is on, press the ⏏ button to close the tray.
2. Press the power button to turn off the power.
3. Unplug the power cable.

Note:
It is prohibited to unplug the power cable while the tray is opened and to close the tray manually. This would cause the mechanism unit to be jammed.

12.9. Displaying Self-Diagnostic Results

<Cassette Deck Section> (H01, H02, H03, F01, F02)

1. Enter the self-diagnostic mode, following the instructions described in [11.2. Entering Self-Diagnostic Mode].
2. Insert a normal-positioned music tape with erase prevention niches on both Sides A and B. Press [TAPE ▶] button to activate the TPS operation so that the tape automatically stops at an interval between music selections.
3. Press [STOP ■ /- DEMO] and [TAPE ▶] buttons together on the remote controller. (Recording does not start.)
4. Then, insert a Cr02-positioned blank cassette tape with an erase prevention niche of Side A or B set to the left side.
5. Press[∧/FF/▶▶|] button on remote control. The tape will be forwarded and automatically stop after two seconds.
6. Remove the cassette tape, and set the other side.
7. Press [∨/ REW/ |◀◀] button on remote control. The tape will be rewound and automatically stops after two seconds.
8. Press [STOP ■ -/ DEMO] button on the unit.
   If an error is found, a self-diagnostic key appears on the display.
   If several errors are found, the display shows these keys when [STOP ■ /-DEMO] button is pressed repeatedly. (Ex.:H01 -H02 -

F01 - H01)

12.10. Error detection for CD block

Error Code	Abnormal Items	Possible Cause
F15	CD REST SW abnormal	CD traverse position intial setting operation failsfe counter (ms)waiting for REST SW to turn on. Error No. shall be clear or during coldstart.
H15	The CD tray closes	CD disc tray detect switch NG. (Check and replace.)
F26	CD servo LSI command signal abnormal	CD function DTMS command, after system setting, if SENSE cannot be detected. Memory shall contain F26 code. After Power on, CD function continue, error shall occur “NO DISC” Error No. shall be clear by force or coldstart.
F28	DISC LOAD abnormal	While going to play position, iffailsafe counter is finished an to o change or switch target condition was not achieve, this shall be memorized. Next time mechanism operates, it shall coldstart. Error No. shall be clear by force or coldstart.
F29	DISC unload abnormal	While going to play position, if failsafe counter is finished an no change or switch target condition was not achieve, this e be memorized. Next time mechanism operates, it shall do co Error No. shall be clear by force or coldstart.
F27	Slide operation abnormal	During vertical operation, if faisafe timer is finished and swit change or switch target condition was not achieve, this erro memorized. Next time mechanism operates, it shall do colds ErrorNo. shall be clear by force or coldstart.
F17	Down SW abnormal	During vertical operation going to the bottom position, if fail timer is finished and switch no change or switch target con not achieve, this error shall be memorized. The Next time me operates, it shall do mechanism initialization. Error No. shall by force or coldstart.
F22	Loading Mode/ Mecha abnormal	During mecha initialization, Loading mode mechanism abno normal operation cannot be achieve. The next time mechani operates, it shall do mechanism initialization. Error No. shall by force or coldstart.
Abnormal item	Error Display	Method of detection
F75	CD power abnormal	under normal operation (self-diagnostic mode inclusive), ch CDRST is H for SELECTOR at CD. If it is not H after 1 sec, it memorised as an error.

12.11. Error detection code for Cassette Mechanism Block

Error Code	Abnormal Items	Possible Cause
H01	MODE SW abnormal	Normal operation during mecha transition, MODE SW abnor memorised. The content of abnormality can be confirmed in abnormal detection mode explained in the later section.
H02	REC INH SW abnormal	The content of abnormality can be confirmed in the abnorma detection mode explained in the later section.
H03	HALF SW abnormal	
F01	Reel pulse abnormal	
F02	TPS abnormal	

13. Cautions To Be Taken During Servicing

13.1. Recovery after the dvd player is repaired

- When Flash ROM or module(2) P.C.B. is replaced, carry out the recovery processing to optimize the drive. Playback the recovery disc to process the recovery automatically.
- Recovery disc (Product number=RFKZD03R005)
- Performing recovery
  1. Load the recovery disc (Product number: RFKZD03R005) to the player and run it.
  2. Recovery is performed automatically. When it is finished, a message appears on the screen.
  3. Remove the recovery disc.
  4. Turn off the power.

Note:
This unit requires no initialization process carried out after the traditional DVD players were repaired. When the recovery measures are taken, the customer setting will return to the factory setting as same as the procedure described in item “Initialization” in 9.6 is carried out. Write down the contents of the setting before recovery processing, and reset the player.

13.2. DVD Player Firmware Version Upgrade Process

Firmware of DVD player may upgrade to conform to improvement of its performance and quality including operational range, playability of non-standardized discs, etc. The version upgrade disc contains the recovery function, and the recovery disc is not necessary.

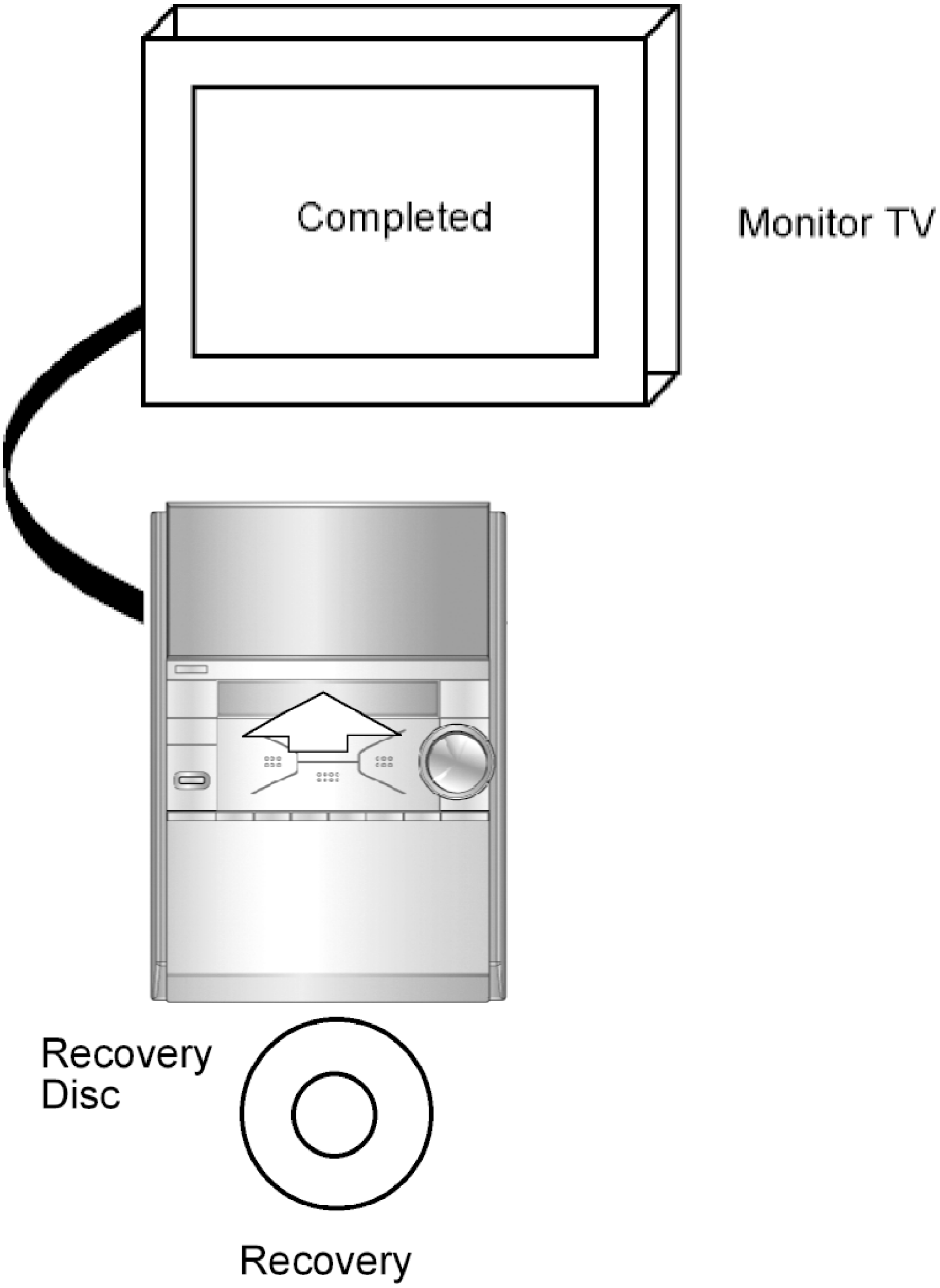
Note:
Version upgrade process cannot be complete if the AC power is cut off due to power failure and other occasions during the process. If this occurs, replace FLASH ROM and restart version upgrade. Version upgrade disc number is informed when ordered.

13.3. Firmware Version Upgrade Process by Using Disc and Recovery Process

- Recovery process

- Firmware version upgrade process

Both of the above procedures automatically start when the recovery disc is replayed.General CD-R disc allows version upgrade process and recovery process, making version upgrade through disc simple. / Recovery process: Optimization process of player after replacement of FLASH ROM, EEPROM, or module circuit board / Version upgrade process: Renewal of firmware for improvement of operational range and performance



13.3.1. Self-Diagnosis Function

- Total usage time display (spindle motor, DVD/CD laser)
- ADSC internal RAM display
- Others: Last error count......20 items

Efficiency of failure diagnosis is expected to improve by using the above functions together with the repair process.

[Purpose of Use]
Total usage time display: used for estimating a failure due to exhausted spindle motor, laser, or other parts.
ADSC internal RAM display: used for deciding servo system failure according to servo learning values.

13.4. Using Recovery Disc

13.4.1. Recovery Process

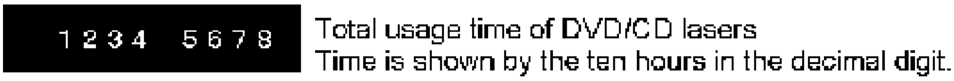
1. **Insert the recovery disc (RFKZD03R005) to the player to replay.**
2. **The recovery process automatically starts, and a message of completion prompts on the screen.**
3. **Remove the disc.**
4. **Turn off the power.**

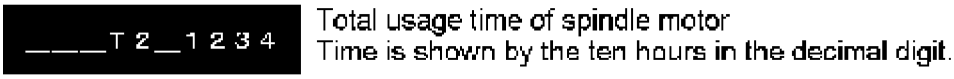
13.4.2. Version Upgrade Process

1. **Insert the recovery disc to the player to replay.**
2. **The version of player is automatically checked and prompts if necessary.**
3. **Select version upgrade process using the cursor keys on the remote controller unit. (Select YES or NO)**
4. **a. If YES is selected, the process starts.**
   b. If NO is selected, only the recovery process is applied.
5. **a. When the version upgrade process is complete, a message of completion appears on the screen. Remove the disc.**
   b. Follow the instruction appearing on the screen, and remove the disc.
6. **Turn off the power.**

13.5. Total Usage Time Display

1. **Details of Operation/Display**


1 2 3 4   5 6 7 8
Total usage time of DVD/CD lasers
Time is shown by the ten hours in the decimal digit.


____T 2__1 2 3 4
Total usage time of spindle motor
Time is shown by the ten hours in the decimal digit.

Keys for Operation: / Laser usage time: While the player is stopped and no disc is inserted, press both the ■ button on the player and the ∧ button on the remote controller unit. / Spindle motor usage time: While the player is stopped and no disc is inserted, press both the ■ button on the player and the ▶ button on the remote controller unit. / / To reset the usage time, while the usage time is displayed: / Laser usage time: press both the ■ button on the player and the ∨ button on the remote controller unit. / Spindle motor usage time: press both the ■ button on the player and the ◀ button on the remote controller unit.

2. **Purpose of Use**
   To obtain reference data of laser and spindle motor systems during failure diagnosis. / To check faulty parts during re-repair.

14. Procedure for Checking Operation of Individual Parts of Cassette Mechanism Unit

14.1. Operation Check with Cassette Tape

1. **Pull up the EJECT lever using a rubber band. (Cf. Fig. 6)**
2. **Supply DC5V to MOTOR. (→ MOTOR rotates.) (Cf. Fig. 5)**
3. **Insert a cassette tape to the unit.**
4. **Supply DC9V to the plunger, and turn the power ON and OFF. (→ Power +PL, -PL) (Cf. Fig. 5)**
   A. **FWD PLAY: Supply the plunger power in a flash. (ON: approx. 5msec)**
   B. **FWD FF: Supply the plunger power in a flash at PLAY mode. (ON**

: approx. 5msec)

C. STOP: Supply the plunger power in a flash at FWD FF mode. (ON : approx. 5msec)

D. REV PLAY: Supply the plunger power in a normal timing at STOP mode. (ON: approx. 200msec)

E. REV REW: Supply the plunger power in a flash at REV PLAY mode. (ON: approx. 50msec)

F. STOP: Supply the plunger power in a flash at FF mode. (ON: approx. 50msec)

Repeat the operation (→ FWD PLAY)

(Note) Other operation may start if a timing of supplying the plunger power is missed.

14.1.1. Connection Status between Mechanism and Power Supply (Motor, Plunger)

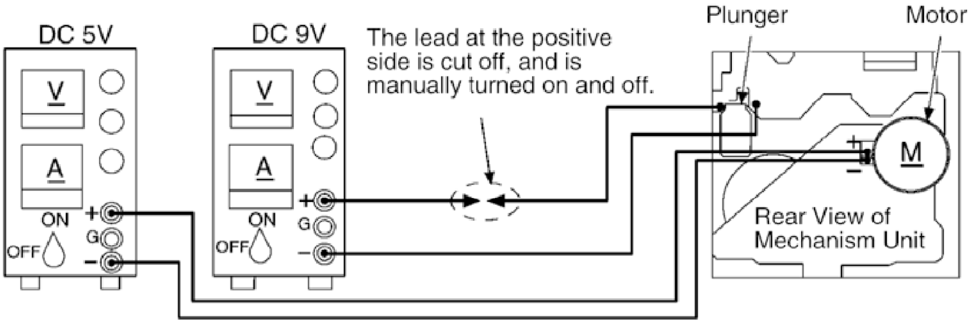
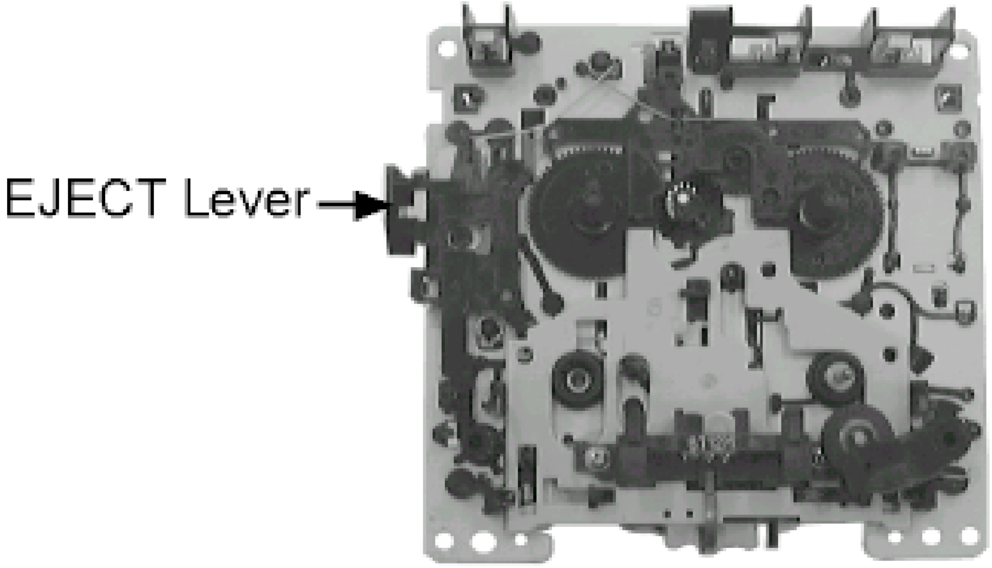

DC 5V
V
A
ON
OFF
+
G
−
DC 9V
V
A
ON
OFF
+
G
−
The lead at the positive side is cut off, and is manually turned on and off.
Plunger
Motor
+
−
M
Rear View of Mechanism Unit

Fig. 5

14.1.2. Operative Parts of Mechanism Unit (EJECT lever fitted with rubber band, / Plunger/Rib operation)

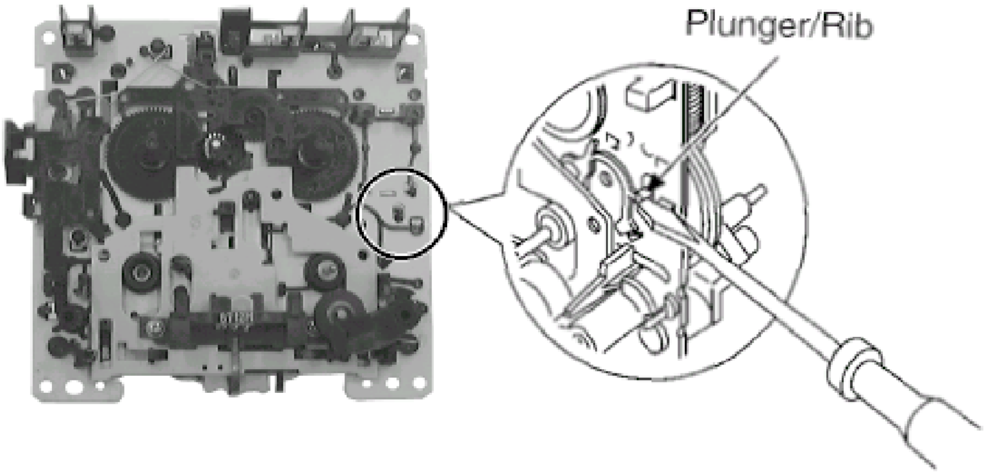
Fig. 6



14.2. Operation Check without Cassette Tape

1. Pull up the EJECT lever using a rubber band. (Cf. Fig. 6)
2. Supply DC5V to MOTOR. (→ MOTOR rotates.)
3. Lift up the mechanism unit’s plunger/rib with the tip of a negative screwdriver, and operate the unit in the same timing as / supplying the power. (Cf. Fig. 7) /

Fig. 7



15. Measurement And Adjustments

15.1. Tuner Section

15.1.1. AM-IF Alignment

- AM-IF ALIGNMENT

SIGNAL GENERATOR OR SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER OSCILLOSCOPE)	ADJUSTMENT(Shown in Fig.3)	RE
CONNECTIONS	FREQUENCY				
Fashion a loop of several turns of wire and radiate signal into loop of receiver.	450 kHz	Point of non-interference (on/ about 600 kHz)	Headphone Jack (32 Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	Z102 (AM IFT)	Adju maxi outp

- AM-RF ALIGNMENT

SIGNAL GENERATOR OR SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER OSCILLOSCOPE)	ADJUSTMENT(Shown in Fig.1)	RE
CONNECTIONS	FREQUENCY				
Fashion a loop of several turns of wire and radiate signal into loop of receiver.	522 kHz	Tuning capacitor fully closed.	Headphone Jack (32 Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	Z101 (AM OSC Coil)	Adju maxi outp
Fashion a loop of several turns of wire and radiate signal into loop of receiver.	603 kHz	Tuning capacitor fully open.	Headphone Jack (32 Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	Z101 (AM ANT Coil)	Adju maxi outp

15.2. Cassette Deck Section

15.2.1. Requirements

- Test tape (QZZCFM) (QZZCWAT)
- Normal blank cassette tape (QZZCRA)
- Digital frequency counter
- Oscilloscope
- Electrical voltmeter
- Headphone jack output jig (Cf. Fig. 8)

15.2.2. Setting of Unit

- VOLUME: MAX

15.2.3. Preparations

1. **Apply [11.2 Disassembly of Side Panel (L) & (R) and 11.3 Disassembly of Top Cabinet Unit] under [11. Disassembly and Main Component Replacement Procedures].**
2. **Remove 4 screws from the mechanism unit to disassemble. (Refer to [11.13. Procedure for Replacing Cassette Holder (Step 1)] under [11. Disassembly and Main Component Replacement Procedures].**
3. **Connect the headphone jack output jig (Cf. Fig. 8) to headphone jack.**

Fig. 8

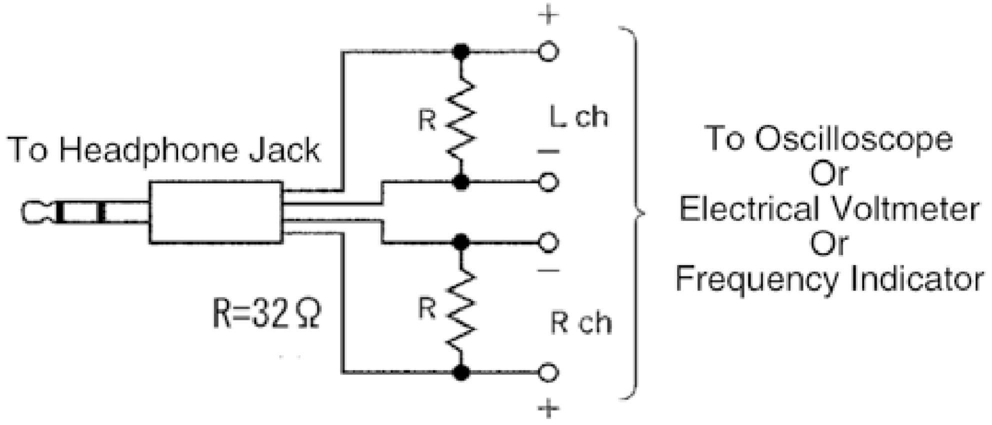
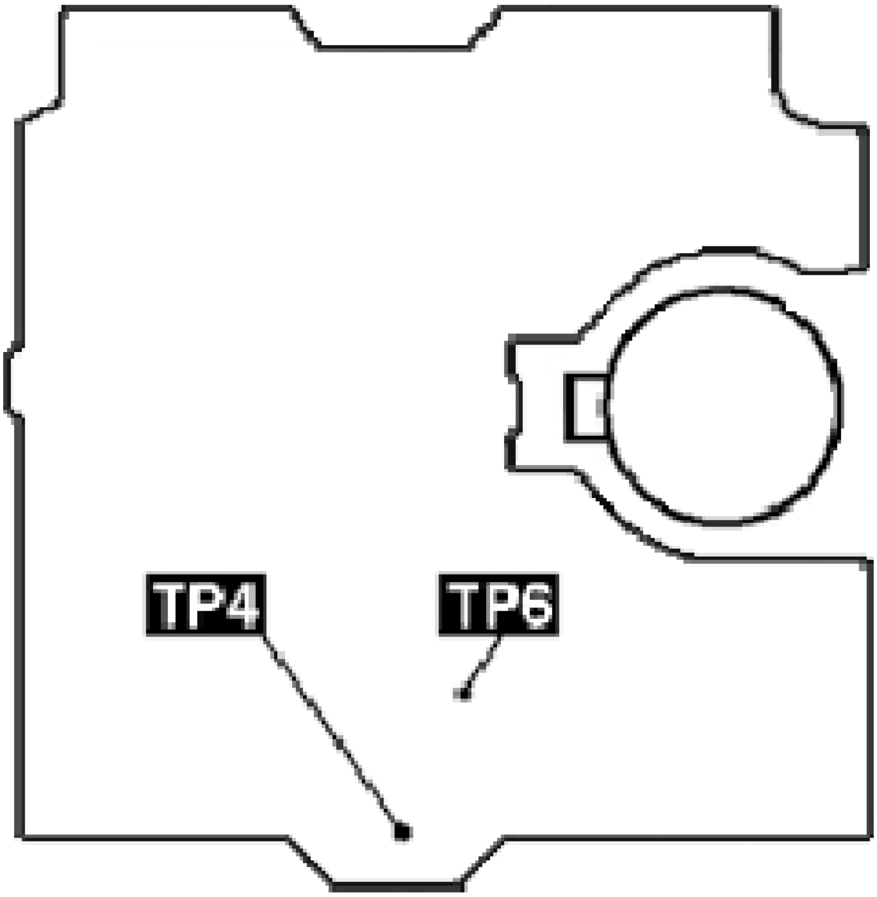

+
R
L ch
−
To Headphone Jack
To Oscilloscope
Or
Electrical Voltmeter
Or
Frequency Indicator
−
R=32Ω
R
R ch
+

Fig. 9



15.2.4. Tape Speed Adjustment

- Normal speed adjustment (only during forward playback)
(Product reference value: 3,000±90Hz)

1. **Connect a frequency indicator. (Cf. Fig. 12)**
2. **Playback the middle portion of the test tape (QZZCWAT).**
3. **Adjust the motor screw so that the following output level is produced. (Cf. Fig. 10)**
   Adjustment Range: 3,000 ± 90Hz (a constant speed)

Fig. 10

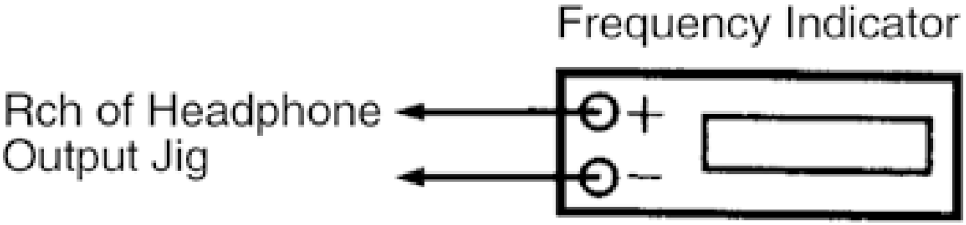
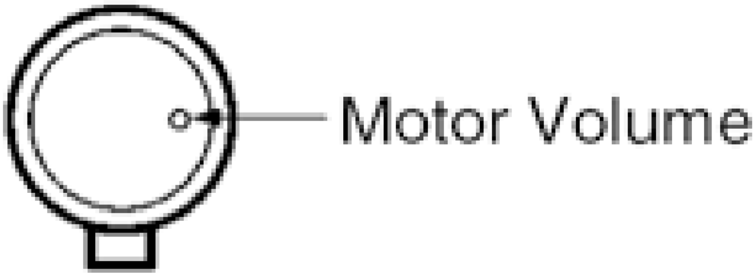

Frequency Indicator
Rch of Headphone Output Jig
+
−

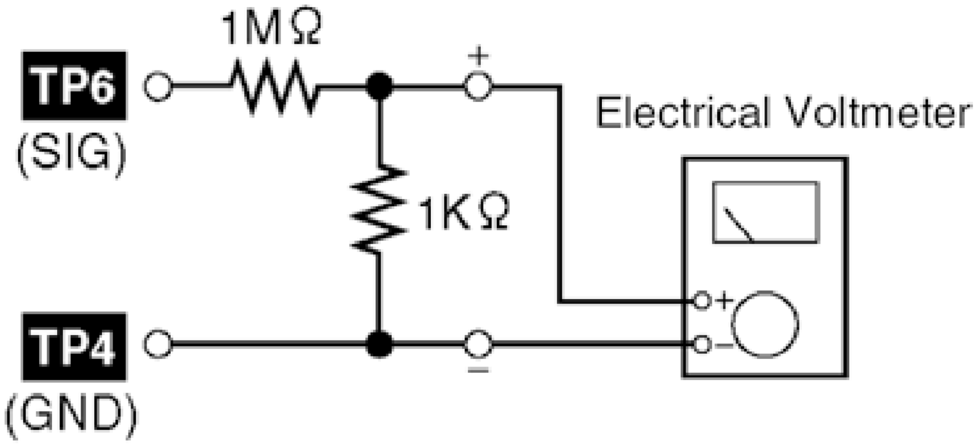
Fig. 11


Motor Volume

15.2.5. Bias Voltage Check

1. Connect an electrical voltmeter. (Cf. Fig. 12)
2. Set the function to “TAPE” position.
3. Insert a normal blank cassette tape (QZZCRA).
4. While pressing and holding down [REC (● / ❚❚)] button, press [TAPE (▶)] button to pause the recording mode. (Repeat pressing the buttons till the recording pause mode is activated.)
5. Check that the output level is within the standard range.
   Standard Range: 14 ± 4mV

Fig. 12

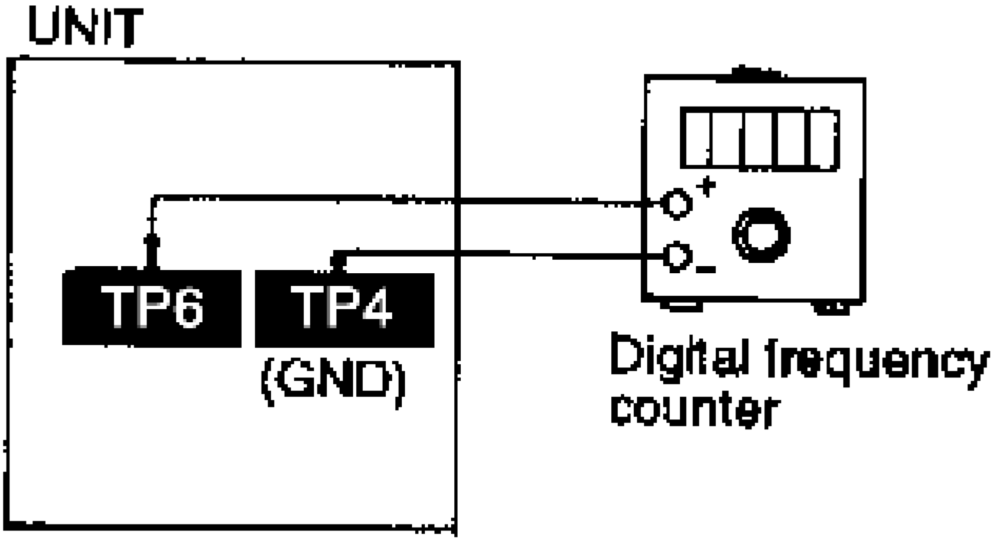

1MΩ
TP6
(SIG)
+
Electrical Voltmeter
1KΩ
TP4
(GND)
−
+
−

15.2.6. Bias Frequency Check

1. Connect a digital frequency counter (Figure 13).
2. Set the function to “TAPE” position.
3. Insert a normal blank cassette tape (QZZCRA) and press “REC” mode on main unit.
4. Check that the output frequency is within the standard range.

Standard Value: 98 ±8 kHz

Fig. 13


UNIT
TP6
TP4
(GND)
+
_
Digital frequency counter

16. Block Diagram

17. Schematic Diagram

(All schematic diagrams may be modified at any time with the development of new technology.)
Notes:

S1	**Stock Switch**
S2	**Play Switch**
S3	**Bottom Switch**
S4	**Open Switch**
S5	**Change Switch**
S602	**ADV SUR Switch**
S603	**OPEN CLOSE Switch**
S604	**DISC 5 Switch**
S605	**DISC 4 Switch**
S606	**DISC 3 Switch**
S607	**DISC 2 Switch**
S608	**Power Switch**
S609	**Disc Check Switch**
S610	**Disc_change Switch**
S611	**Re_master Switch**
S613	**Tuner/ Aux Switch**
S614	**DVD/ CD Switch**
S615	**Stop Switch**
S616	**Tape Switch**
S617	**Rec Switch**
S618	**Disc 1 Switch**
S971	**Mode Switch**
S972	**Half Switch**
S973	**ATS/CR02 Switch**
S974	**Recinh_r Switch**
S975	**Recinh_f Switch**
S1901	**Tape Eject Switch**

- **The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis. Accordingly, there may arise some error in voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.**

No mark	**...Playback**	**< >**	**...FM**
(( ))	**...CD**	**( )**	**...AM**

- **Importance safety notice:**

Components identified by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer’s specified parts shown in the parts list.

Caution!

IC, LSI and VLSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.

- **Cover the parts boxes made of plastics with aluminium foil.**
- **Put a conductive mat on the work table.**
- **Ground the soldering iron.**
- **Do not touch the pins of IC, LSI or VLSI with fingers directly.**

17.1. Optical Pickup Circuit

17.2. (A) DVD Module Circuit

17.3. (B) Main Circuit

17.4. (C) Panel Circuit & (E) Scart Circuit

17.5. (H) Deck Circuit, (I) Tape Eject Circuit & (J) Deck Mechanism Circuit

17.6. (F) Power Circuit

17.7. (D) Speaker Circuit & (G) Transformer Circuit

17.8. (K) CD Loading Circuit

18. Printed Circuit Board

18.1. (A) DVD Module P.C.B. (Side: A & B)

18.2. (B) Main P.C.B.

18.3. (C) Panel P.C.B.

18.4. (D) Speaker P.C.B. & (E) Scart P.C.B.

18.5. (F) Power P.C.B.

18.6. (G) Transformer P.C.B.

18.7. (H) Deck P.C.B. & (I) Tape Eject P.C.B.

18.8. (J) Deck Mechanism P.C.B. & (K) CD Loading P.C.B.

19. Wiring Connection Diagram

20. Type Illustrations of ICs, Transistors & Diodes

21. Terminal Function of IC's

21.1. IC2801(C2CBJG000403) System Microprocessor

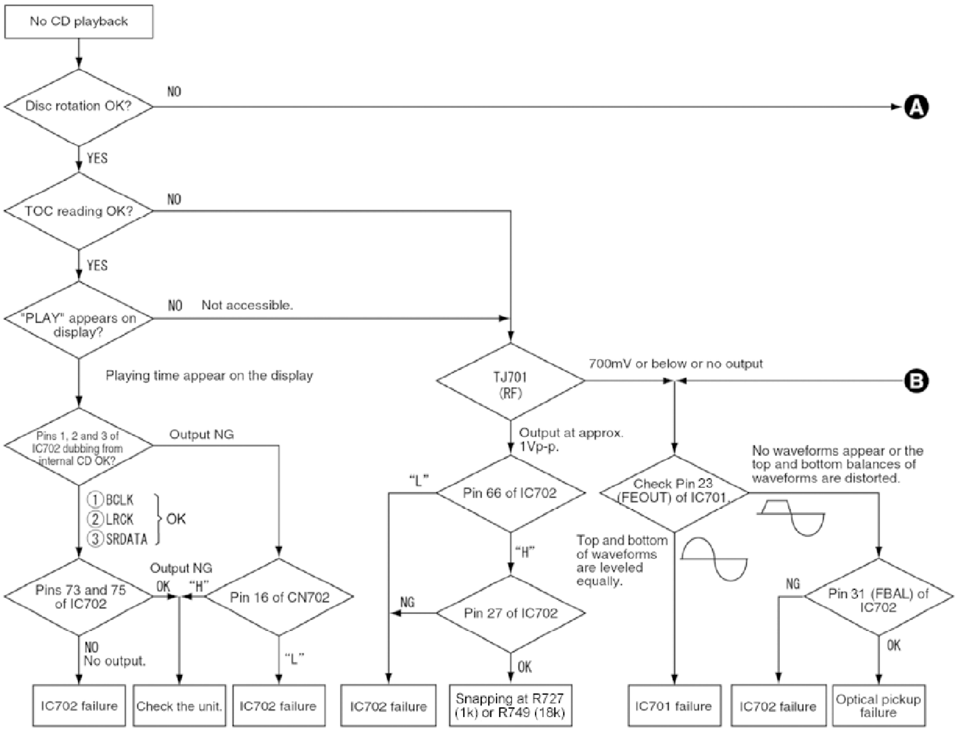
Pin No.	Mark	I/O	Function
1	ST_SW	I	Stock Switch Change
2	OP/CL_REV	O	Reverse control signal for OPEN/ CLOSE motor
3	OP/CL_FWI	O	Forward control signal for OPEN/ CLOSE Motor
4	OPEN_SW	I	Signal from Rotary tray OPEN Switch
5	POSITION	I	Signal from of Position Detection sensor
6	MBP1	O	Micon Beat Proof 1
7	MBP2	O	Micon Beat Proof 2
8	BYTE	-	VSS (GND)
9	CNVss	-	VSS (GND) The Only Pull High Pin
10	XCIN	-	SUB CLOCK INPUT (32.768 kHz)
11	XCOUT	-	SUB CLOCK OUTPUT (32.768 kHz)
12	RESET	I	SYSTEM RESET INPUT
13	XOUT	-	MAIN CLOCK OUTPUT (8.0 MHZ)
14	Vss	-	GNS (0V)
15	XIN	-	MAIN CLOCK INPUT (10 MHZ)
16	VCC	-	POWER SUPPLY (5V)
17	NMI	I	CONNECT TO VCC, EXTERNAL INTERRUPT I/P
18	RMT	I	REMOCON INPUT
19	SYNC	I	AC FAILURE DETECT INPUT

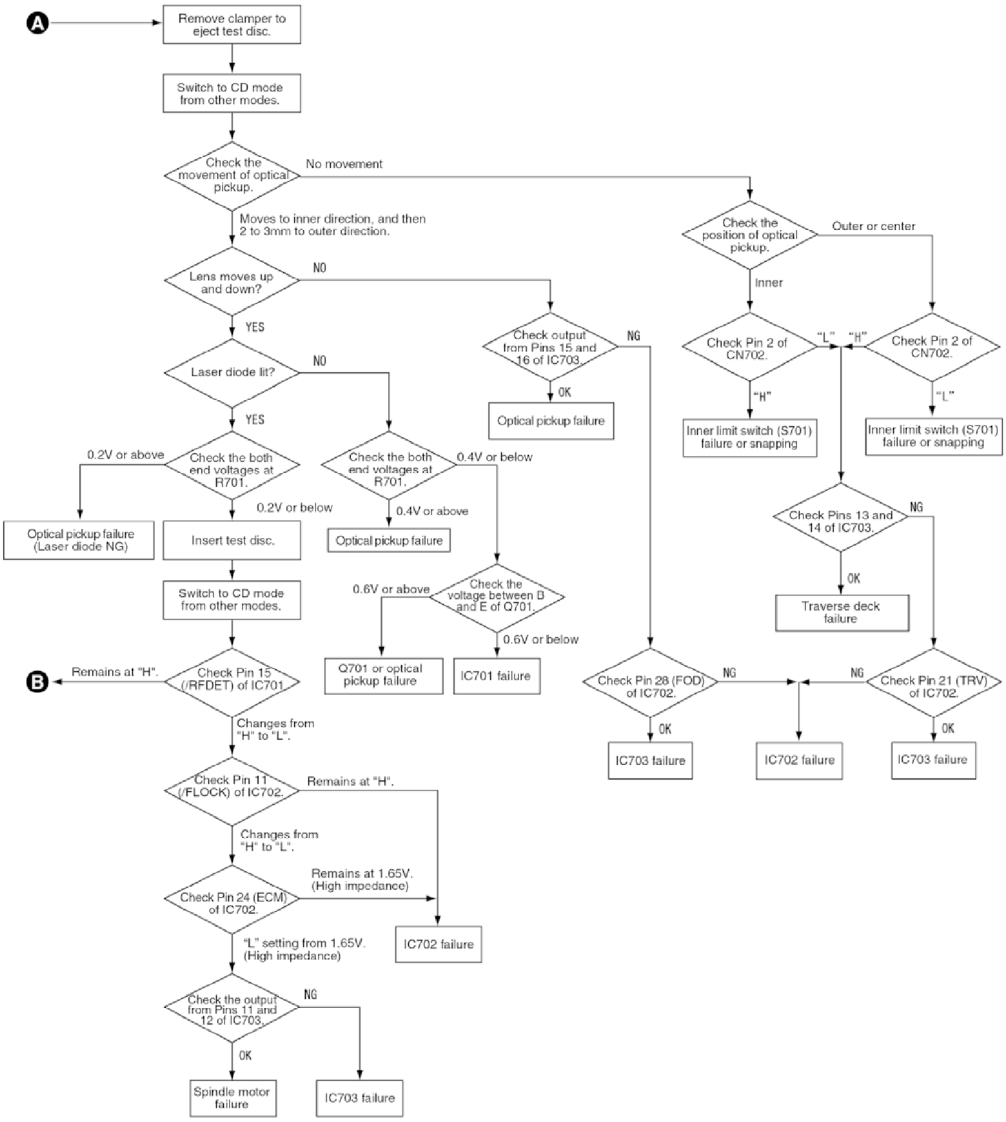
Pin No.	Mark	I/O	Function
20	Up/ Down R	O	Changer Motor 2 Reverse Control
21	Change SW	I	Changer Change Switch
22	BOTTOM SW	I	CHANGER BOTTOM SWITCH
23	EDA	I/O	DATA signal for the EEPROM
24	ECLK	O	CLOCK signal for the EEPROM
25	ECS	O	LAT signal for the EEPROM
26	UP/ DOWN F	O	Changer Motor 2 Forward Control
27	TU_SD	I	SIGNAL DET Input from Tuner
28	TU_ST/ DO	I	Stereo Indicator from Tuner/ DO-OUTPUT of Tuner IC
29	TU_SCL (PLL_CK)	O	Clock for Tuner (Clock Signal for the PLL Tuner)
30	TU_SDA (PLL_DA)	O	12C Data for Tuner (PLL DATA - DI INPUT of Tuner)
31	TU_FM_DET (PLL_CE)	I	Tuner FM Detect (Latch Signal for the PLL Tuner)
32	N.C.	-	No Connection
33	N.C.	-	No Connection
34	N.C.	-	No Connection
35	DVD_CMD	O	CMD signal for the DVD Module
36	DVD_STA	I	STATUS signal from the DVD module
37	DVD_CK	I	CLK signal for the DVD Module
38	N.C.	L	No Connection
39	PROGRESSIVE	O	Video Output Control for Progressive
40	N.C.	L	No connection
41	EPM	I	For Flash
42	SUB MUTE	O	Subwoofer Mute Signal
43	HP_MUTE	O	Head Phone Mute signal
44	DVD_MUTE	I	Signal fromDVD module control mute circuit

Pin No.	Mark	I/O	Function
45	RGBH	O	RGB video output control signal
46	VMIX_Ctrl	O	Control signal for the video signal Mix
47	Wide1	O	S-video output control
48	ASP_DA	O	DATA signal for 6ch VOL ASP
49	ASP_CK	O	CLOCK signal for 6ch VOL ASP
50	SW2	O	Subwoofer level control 2
51	SW1	O	Subwoofer level control 1
52	KA_LAT	O	Karaoke Latch
53	Karaoke Data	O	Karaoke Data
54	KA_CLK	O	Karaoke Clock
55	Demo	I	DEMO detect Key (H= Default On, L= Default Off)
56	N.C.	-	No Connection
57	N.C.	-	No Connection
58	N.C.	-	No Connection
59	N.C.	-	No Connection
60	N.C.	-	No Connection
61	N.C.	-	No Connection
62	Vcc	-	POWER SUPPLY 5.0V
63	N.C.	-	No Connection
64	Vss	-	Ground (0V)
65	N.C.	-	No Connection
66	N.C.	-	No Connection
67	N.C.	-	No Connection
68	DVD_PCNT	O	Control Signal for the Power for the DVD MODULE
69	N.C.	-	No Connection
70	PCONT	O	Control Signal for the Power Control Relay
71	MUTE_H	O	HIC MUTE
72	DC DET	I	Signal from the DC Detection circuit
73	RDS_CK	I	Clock signal for the RDS decoder
74	RDS_DO	I	Data signal for the RDS decoder
75	JOG_B	I	Signal B from Volume JOG

Pin No.	Mark	I/O	Function
76	JOG_A	I	Signal A from Volume JOG
77	MIC_SW	I	MIC Switch detection
78	REC	O	Deck Recording Control (Recording= H)
79	PHOTO	I	Deck photo Detection
80	DMT	O	Deck Mute at Mecha Transition (L= Mute Off, H= Mute On)
81	BP	O	AM Beat proof 1 (L= BP1, H= BP2)
82	MOTOR	O	Deck Motor Control (L= OFF, H=ON)
83	PLUNGER	O	Deck Plunger Control (L=OFF, H=ON)
84	FLD_CK	O	Clock Signal for the FL Driver
85	FLD_DA	O	Data input for the FL Driver
86	LED	O	LED Control For dimmer
87	FLD_RST	O	Reset Signal for the FL Driver
88	FLD_CS	O	Latch Signal for the FL Driver
89	DECK_AD1	I	Deck AD Input 1
90	DECK_AD2	I	Deck AD Input 2
91	Key 3	I	Key 3 line input
92	Key 2	I	Key 2 line input
93	DES3	I	REGION Setting for DVD
94	DES2	I	REGION Setting for DVD (Speaker Region) for latin America
95	DES1	I	REGION Setting for DVD (Tuner, RDS, SCART Region)
96	AVSS	-	ANALOG POWER SUPPLY INPUT
97	KEY 1	I	Key 1 line input
98	VREF	-	REFERENCE VOLTAGE INPUT
99	AVCC	-	ANALOG POWER SUPPLY INPUT
100	PLAY_SW	I	Play Switch

22. Troubleshooting Flowchart (CD Section Circuit)


No CD playback
Disc rotation OK?
NO
A
YES
TOC reading OK?
NO
YES
"PLAY" appears on display?
NO
Not accessible.
Playing time appear on the display
TJ701 (RF)
700mV or below or no output
B
Output at approx. 1Vp-p.
Pins 1, 2 and 3 of IC702 dubbing from internal CD OK?
Output NG
①BCLK
②LRCK
③SRDATA
OK
Pins 73 and 75 of IC702
Output NG
OK
"H"
Pin 16 of CN702
NO
No output.
"L"
"L"
Pin 66 of IC702
"H"
Pin 27 of IC702
NG
OK
Check Pin 23 (FEOUT) of IC701.
No waveforms appear or the top and bottom balances of waveforms are distorted.
Top and bottom of waveforms are leveled equally.
NG
Pin 31 (FBAL) of IC702
OK
IC702 failure
Check the unit.
IC702 failure
IC702 failure
Snapping at R727 (1k) or R749 (18k)
IC701 failure
IC702 failure
Optical pickup failure


A
Remove clamper to eject test disc.
Switch to CD mode from other modes.
Check the movement of optical pickup.
No movement
Moves to inner direction, and then 2 to 3mm to outer direction.
Check the position of optical pickup.
Outer or center
Inner
Lens moves up and down?
NO
YES
Check output from Pins 15 and 16 of IC703.
NG
OK
Optical pickup failure
Check Pin 2 of CN702.
"L"
"H"
Check Pin 2 of CN702.
"H"
"L"
Inner limit switch (S701) failure or snapping
Inner limit switch (S701) failure or snapping
Laser diode lit?
NO
YES
0.2V or above
Check the both end voltages at R701.
Check the both end voltages at R701.
0.4V or below
0.2V or below
0.4V or above
Optical pickup failure (Laser diode NG)
Insert test disc.
Optical pickup failure
Check Pins 13 and 14 of IC703.
NG
OK
Traverse deck failure
Switch to CD mode from other modes.
0.6V or above
Check the voltage between B and E of Q701.
0.6V or below
B
Remains at "H".
Check Pin 15 (/RFDET) of IC701.
Q701 or optical pickup failure
IC701 failure
Check Pin 28 (FOD) of IC702.
NG
NG
Check Pin 21 (TRV) of IC702.
OK
OK
IC703 failure
IC702 failure
IC703 failure
Changes from "H" to "L".
Check Pin 11 (/FLOCK) of IC702.
Remains at "H".
Changes from "H" to "L".
Check Pin 24 (ECM) of IC702.
Remains at 1.65V. (High impedance)
IC702 failure
"L" setting from 1.65V. (High impedance)
Check the output from Pins 11 and 12 of IC703.
NG
OK
Spindle motor failure
IC703 failure

23. Parts Location and Replacement Parts List

Notes:

- **Important safety notice:**
  Components identified by ⚠ mark have special characteristics important for safety.
  Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
  When replacing any of these components, be sure to use only manufacturers's specified parts shown in the parts list.
- **The parenthesized indications in the Remarks column specify the areas or color. (Refer to the cover page for area or color.)**

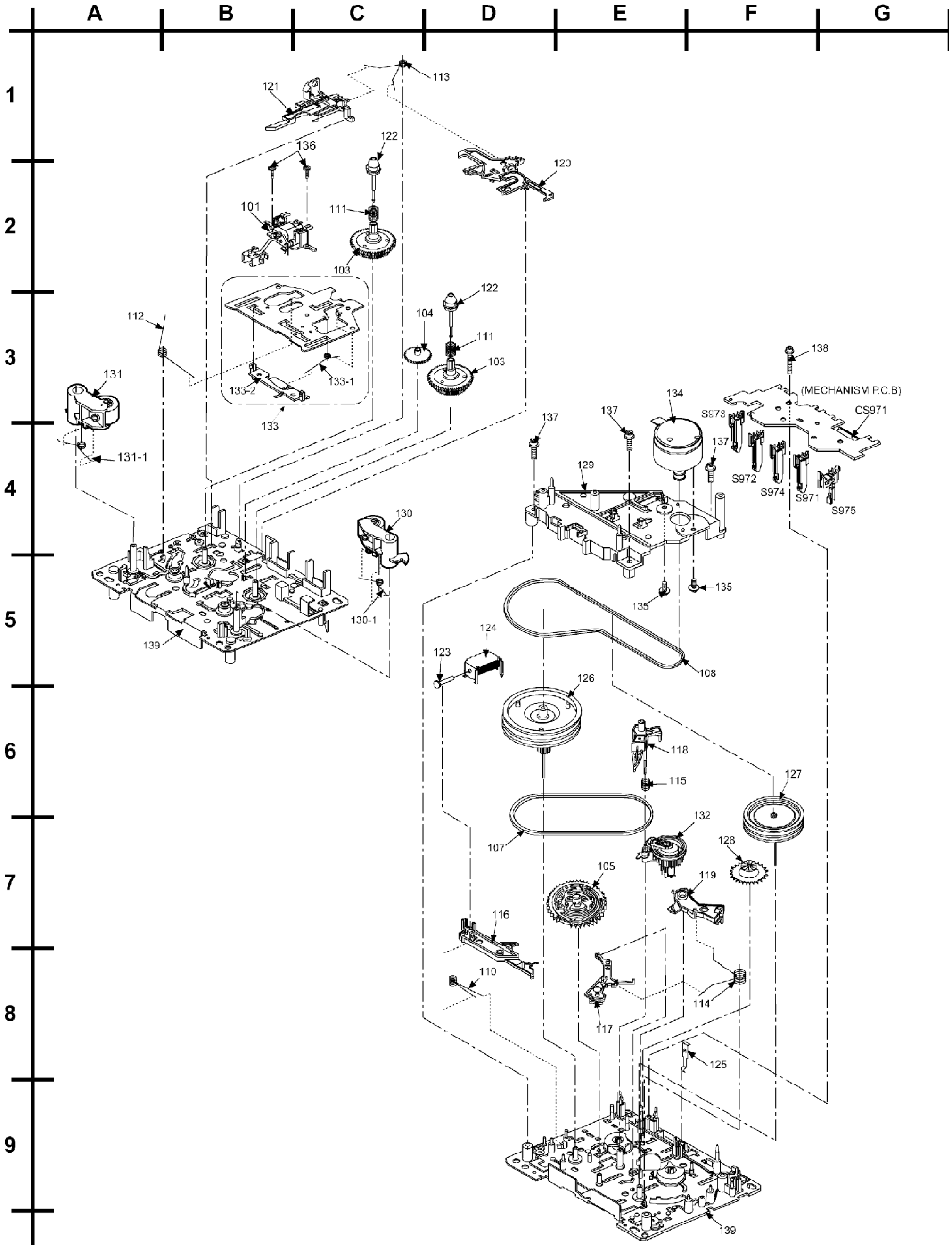
Parts without these indications can be used for all areas.

- Warning: This product uses a laser diode. Refer to caution statements on “Precaution of Laser Diode”.
  ACHTUNG:
- Die Lasereinheit nicht zerlegen.
- Die Lasereinheit darf nur gegen eine vom Hertsteller spezifizierte Einheit ausgetauscht werden.
- Capacitor values are in microfarad (μ F) unless specified otherwise, P=Pico-farads(pF); Farads.
- Resistance values are in ohms, unless specified otherwise, 1K= 1,000(ohms).
- The marking (RTL) indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the lows govening part and product retention. After the end of this period, the assembly will no longer be available.
- [M] indicates in the Remarks columns indicates parts that are supplied by PAVCSG.
- Reference for O/I book languages are as follows :

Ar : Arabic
Cf : Canadian French
Cz : Czech
Da : Danish
Du : Dutch
En : English
Fr : French
Ge : German
It : Italian
Ko : Korean
Po : Polish
Su : Russian
Sp : Spanish
Sw : Swedish
Co : Traditional Chinese
Cn : Simplified Chi
Pe: Persian

23.1. Deck Mechanism (RAA4110-S)

23.1.1. Deck Mechanism Parts Location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(MECHANISM P.C.B)
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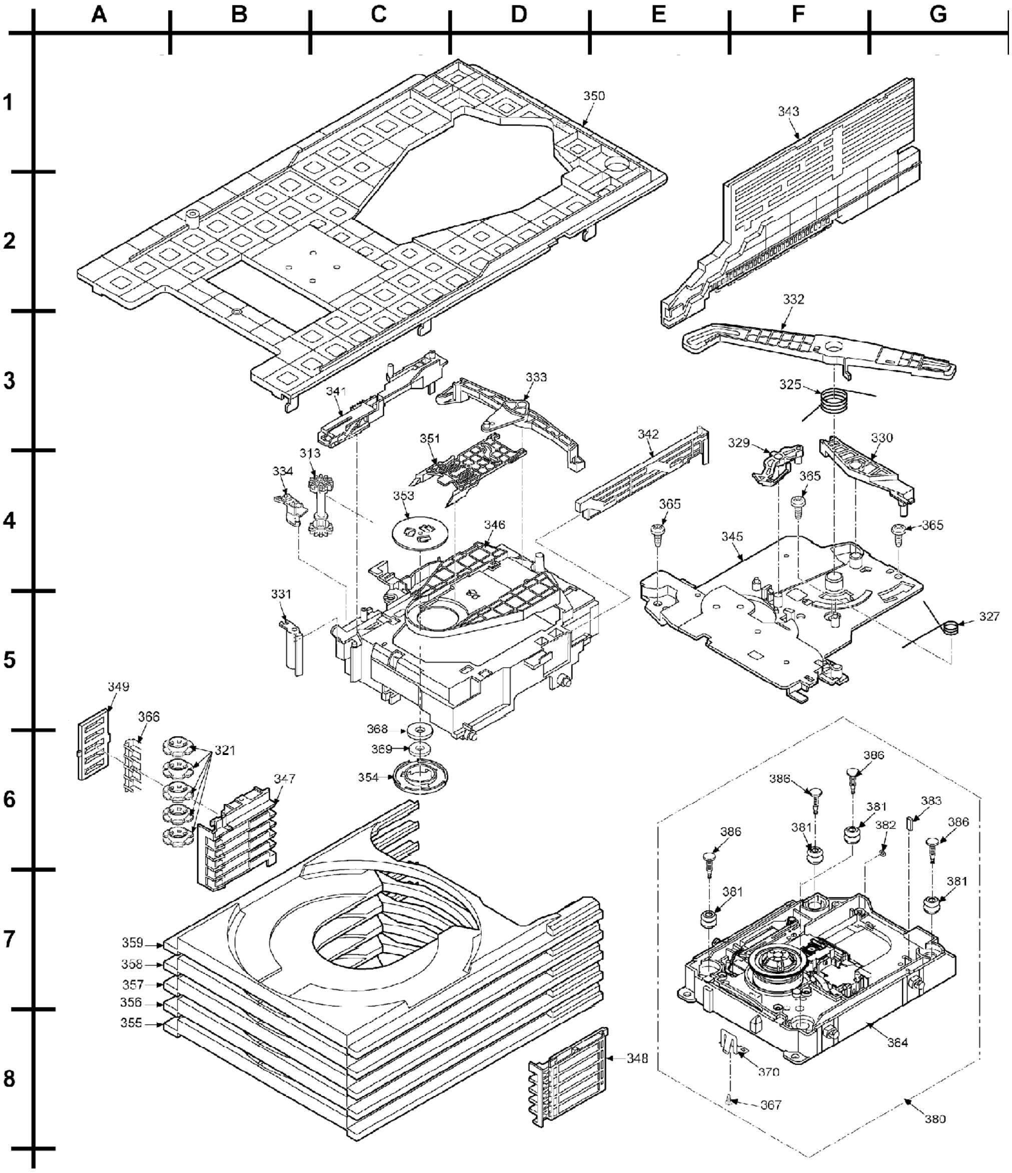
23.1.2. Deck Mechanism Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CASSETTE DECK	
101	RED0071	R/P HEAD BLOCK UNIT	[M]
103	RDG0300	REEL BASE GEAR	[M]
104	RDG0301	WINDING RELAY GEAR	[M]
105	RDK0026	MAIN GEAR	[M]
107	RDV0033-4	WINDING BELT	[M]
108	RDV0034-1	CAPSTAN BELT A	[M]
110	RMB0312	TRIGGER LEVER SPRING	[M]
111	RMB0400	REEL SPRING	[M]
112	RMB0403	HEAB PANEL SPRING	[M]
113	RMB0404	BRAKE ROD SPRING	[M]
114	RMB0406	FR LEVER SPRING	[M]
115	RMB0408	THRUST SPRING	[M]
116	RML0370	TRIGGER LEVER	[M]
117	RML0371	FR LEVER	[M]
118	RML0372	WINDING LEVER	[M]
119	RML0374	EJECT LEVER	[M]
120	RMM0131	BRAKE ROD	[M]
121	RMM0133-1	EJECT ROD	[M]
122	RMQ0519	REEL HUB	[M]
123	RMS0398-1	MOVING CORE	[M]
124	RSJ0003	PLUNGER	[M]
125	RMC0061	PACK SPRING	[M]
126	RXF0061	FLYWHEEL F ASSY	[M]
127	RXF0062	FLYWHEEL R ASSY	[M]
128	RXG0040	FF RELAY GEAR ASSY	[M]
129	RMK0283A-J	SUB-CHASSIS	[M]
130	RXL0124	PINCH ROLLER F ASSY	[M]
130-1	RMB0401	PINCH ARM SPRING F	[M]
131	RXL0125	PINCH ROLLER R ASSY	[M]
131-1	RMB0402	PINCH ARM SPRING R	[M]
132	RXL0126	WINDING ARM ASSY	[M]
133	RXQ0412	HEAD PANEL ASSY	[M]
133-1	RMB0405	FR ROD SPRING	[M]
133-2	RMM0132	FR ROD	[M]
134	REM0098	CAP MOTOR ASSY	[M]
135	RHD26022	MOTOR SCREW	[M]
136	XTW2+5L	HEAD BLOCK UNIT SCREW	[M]
137	XTW26+10S	SUB-CHASSIS SCREW	[M]
138	XYC2+JF17	PCB EARTH SCREW	[M]
139	RFKJSTR280PP	MAIN CHASSIS ASS’Y	[M]

23.2. CD Loading Mechanism

23.2.1. CD Loading Mechanism Parts Location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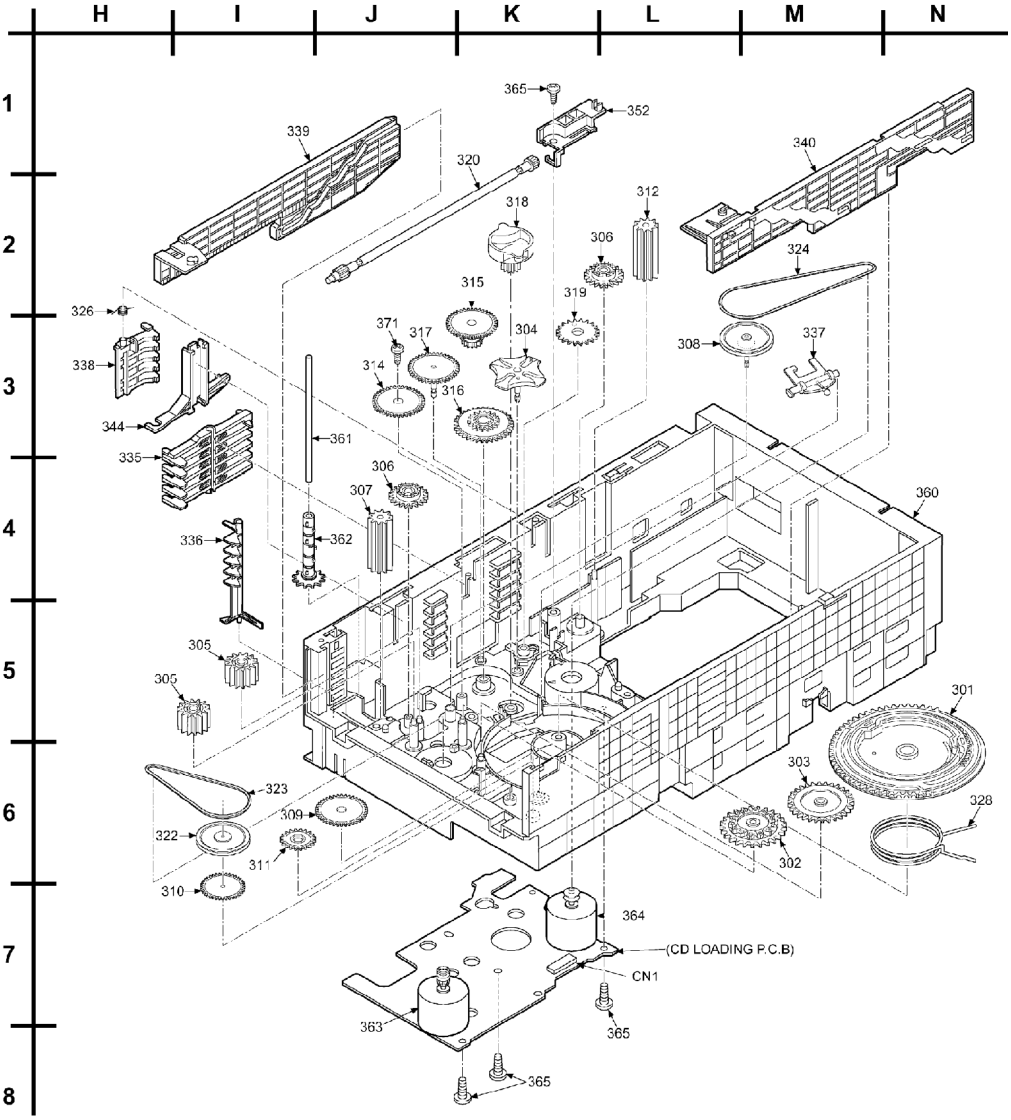
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(CD LOADING P.C.B)
CN1
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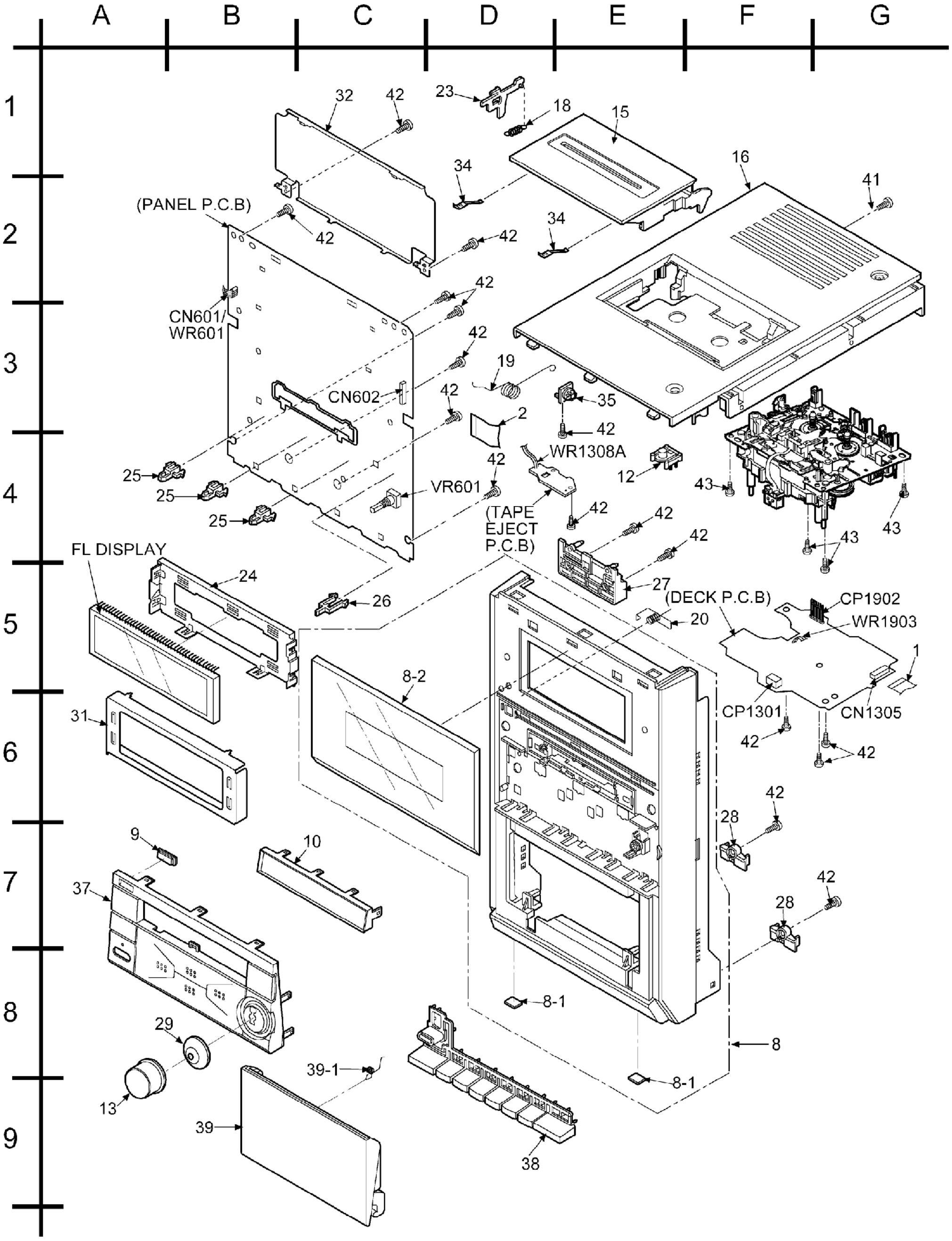
23.2.2. CD Loading Mechanism Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		TRAVERSE DECK	
301	RDG0519	MAIN GEAR	[M]
302	RDG0520	SPEED UP GEAR	[M]
303	RDG0521	REVERSE GEAR	[M]
304	RDG0522	GENEVA GEAR	[M]
305	RDG0523	HOR RELAY GEAR	[M]
306	RDG0525	CROWN GEAR	[M]
307	RDG0526	TRAY RELAY GEAR	[M]
308	RDG0527	UD PULLEY GEAR	[M]
309	RDG0528	HOR SPEED DOWN GEAR	[M]
310	RDG0529	HOR SPEED DOWN GEAR	[M]
311	RDG0530	HOR DRIVE GEAR	[M]
312	RDG0531	LOAD RELAY GEAR	[M]
313	RDG0532	LOAD GEAR	[M]
314	RDG0534	UD SPEED DOWN GEAR	[M]
315	RDG0535	UD SPEED DOWN GEAR	[M]
316	RDG0536	SELECT SPEED DOWN GEAR	[M]
317	RDG0537-1	SELECT DRIVE GEAR	[M]
318	RDG0538-1	CHANGE GEAR	[M]
319	RDG0539	UD DRIVE GEAR	[M]
320	RDG0540	TIMING GEAR	[M]
321	RDG0542	TRAY GEAR	[M]
322	RDG0543	HOR PULLEY GEAR	[M]
323	RDV0068	HOR BELT	[M]
324	RDV0069	UD BELT	[M]
325	RME0344-1	UD ASSIST SPRING	[M]
326	RME0361	TRAY STOPPER SPRING	[M]
327	RME0363-1	LIMIT SPRING	[M]
328	RME0368-1	MAIN GEAR SPRING	[M]
329	RML0616	SPEED UP LOCK	[M]
330	RML0617-2	SEPARATE LEVER 1	[M]
331	RML0618-1	SEPARATE LEVER 2	[M]
332	RML0619-1	UD. CONNECTION LEVER	[M]
333	RML0620	TRV.CONNECT LEVER	[M]
334	RML0621-2	TRAY CHANGE LEVER	[M]
335	RML0622-1	TRAY LOCK LEVER	[M]
336	RML0623	OPEN SW. LEVER	[M]
337	RML0624	CHG. LEVER	[M]
338	RML0637	TRAY STOPPER	[M]
339	RMM0239-1	UD RACK L	[M]
340	RMM0240	UD.RACK [R]	[M]
341	RMM0241-1	TRV SLIDE PLATE (L)	[M]
342	RMM0242-1	TRV SLIDE PLATE (R)	[M]
343	RMM0243-2	SELECT RACK PART	[M]
344	RMM0244	SELECT GUIDE	[M]
345	RMQ1051-2	PITCH PLATE PART	[M]
346	RMQ1209	UD BASE	[M]
347	RMQ1056	TRAY GUIDE [L]	[M]
348	RMQ1057	TRAY GUIDE [R]	[M]
349	RMQ1058	GEAR HOLDER	[M]
350	RMQ1059-2	TOP COVER	[M]
351	RMQ1060	CLAMP GUIDE	[M]
352	RMQ1061	TG.PLATE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
353	RMR1531-X	FIXTURE	[M]
354	RMR1446-X	CLAMPER	[M]
355	RMR1407A-H1	TRAY	[M]
356	RMR1407B-H1	TRAY	[M]
357	RMR1407C-H1	TRAY	[M]
358	RMR1407D-H1	TRAY	[M]
359	RMR1407E-H1	TRAY	[M]
360	RFKNAPM77MDS	MECHA BASE ASS’Y	[M]
361	RMS0762	TRAY GEAR SHAFT	[M]
362	RXG0053	TRAY DRIVE GEAR ASSY	[M]
363	RXQ0803	LOADING MOTOR ASSY	[M]
364	RXQ0804	UD MOTOR ASSY	[M]
365	XTB3+10J	SCREW	[M]
366	RMC0472	TRAY SPRING	[M]
367	XTV2+6G	SCREW	[M]
368	XWG6FFY	BACKYOKE	[M]
369	JSM0048	MAGNET	[M]
370	RMC0387	SUPPORT SPRING	[M]
371	XTBS26+8J	SCREW	[M]
380	RAE2008W-S	DT68 TRV SUB UNIT	[M]
381	RMG0598A-K	FLOATING RUBBER	[M]
382	RMG0617-H	CUSHION RUBBER A	[M]
383	RMG0618-H	CUSHION RUBBER B	[M]
384	RMR1596-K	MIDDLE CHASSIS	[M]
386	RMS0789	FIXED PIN	[M]

23.3. Cabinet

23.3.1. Cabinet Parts Location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(PANEL P.C.B)
CN601/
WR601
CN602
WR1308A
VR601
(TAPE
EJECT
P.C.B)
FL DISPLAY
(DECK P.C.B)
CP1902
WR1903
8-2
CP1301
CN1305
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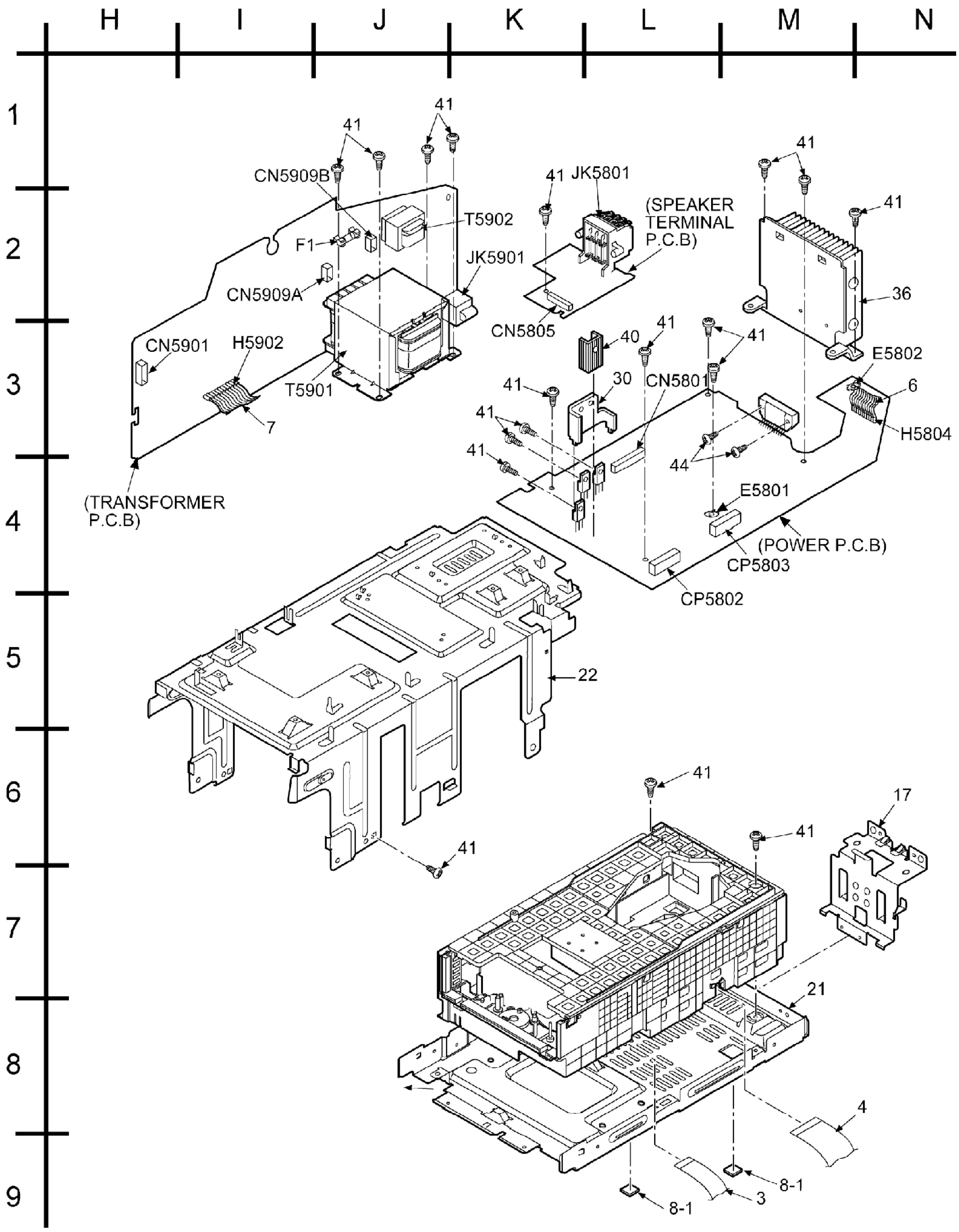
39-1
8-1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CN5901
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T5901
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(TRANSFORMER
P.C.B)
JK5801
(SPEAKER
TERMINAL
P.C.B)
CN5805
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CN5801
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E5802
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(POWER P.C.B)
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CP5802
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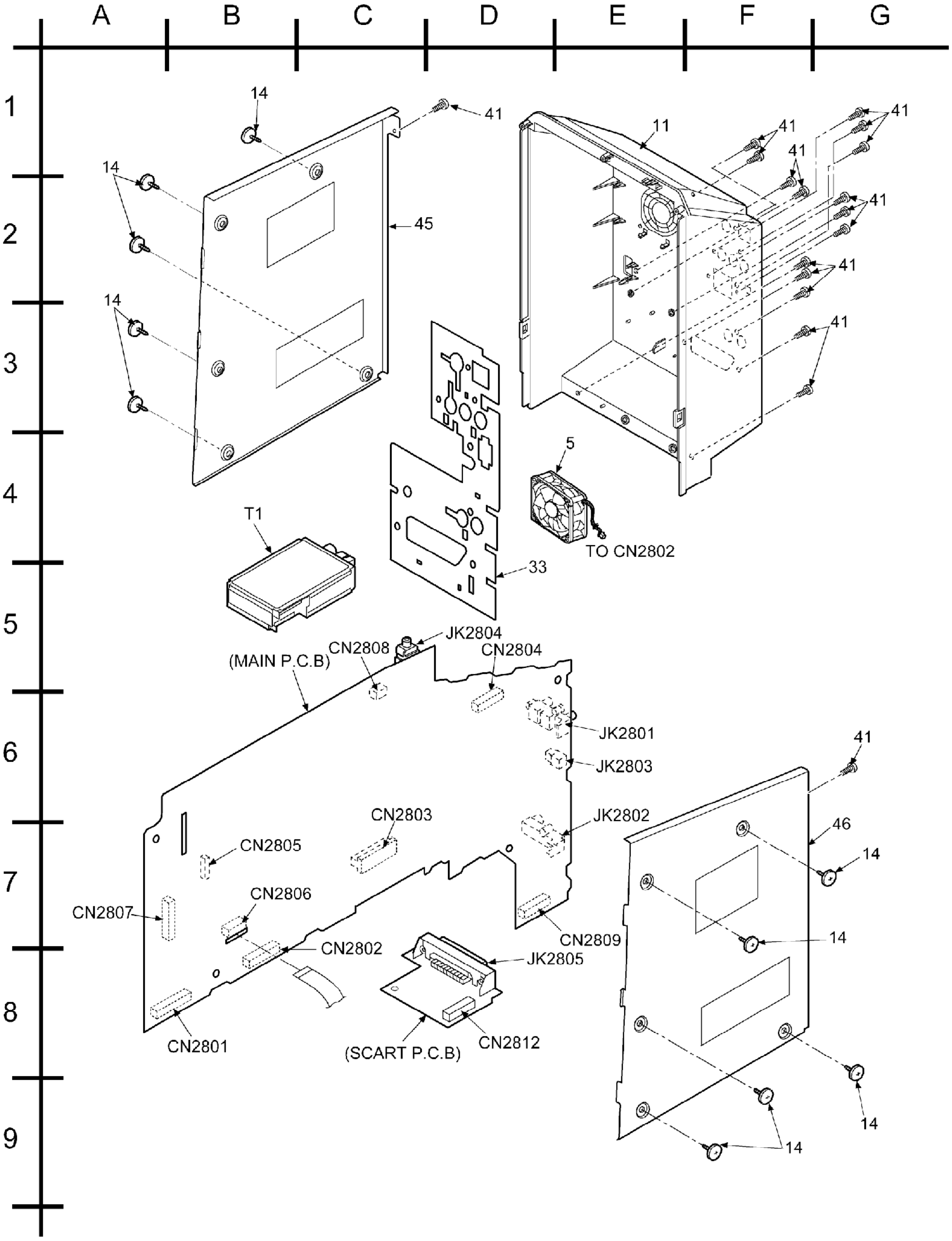
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TO CN2802
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JK2804
CN2808
(MAIN P.C.B)
CN2804
JK2801
JK2803
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CN2803
JK2802
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CN2805
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CN2806
CN2807
CN2809
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CN2802
JK2805
CN2801
(SCART P.C.B)
CN2812
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23.3.2. Cabinet & CD Loading Mechanism Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	REEX0325	21P FFC	[M]
2	REEX0326	16P FFC	[M]
3	REEX0327	FFC WIRE	[M]
4	REEX0328	FFC WIRE	[M]
5	REM0094A	COOLING FAN	[M]
6	REXX0399	8P WIRE	[M]
7	REXX0400	12P WIRE	[M]
8	RFKGAPM39DEB	FRONT PANEL ASS'Y	[M]
8-1	RHGV0008	LEG CUSHION	[M]
8-2	RGK1749A-S	FL WINDOW	[M]
9	RKW0755-W	SENSOR WINDOW	[M]
10	RFKNAPM39DEB	MD ORNAMENT ASS'Y	[M]
11	RFKHAPM39DEB	REAR CABINET ASS'Y	[M]EB
11	RKSX0056-H	REAR CABINET	[M]EG/ E
12	RGU2280-S	CASS EJECT BUTTON	[M]
13	RGW0404-S	VOLUME KNOB	[M]
14	RHD30007-1SJ	SCREW	[M]
15	RKF0688-S	CASS LID	[M]
16	RKM0507-S	TOP PANEL	[M]
17	RMAX0065	V/SELECTOR BRACKET	[M]
18	RMB0448-J	LOCK ROD SPRING	[M]
19	RMB0780	CASS OPEN SPRING	[M]
20	RMB0795	EARTH SPRING	[M]
21	RMK0595	BOTTOM CHASSIS	[M]
22	RMKX0090	INNER CHASSIS	[M]
23	RMM0163-1	CASSETTE LOCK ROD	[M]
24	RMN0772	FL HOLDER	[M]
25	RMN0773	LED HOLDER A	[M]
26	RMN0774	LED HOLDER B	[M]
27	RMN0775	MD HOLDER	[M]
28	RMN0780	CD LID SUPPORT	[M]
29	RMR1607-W	VOL. REF CASE	[M]
30	RMY0260	HEAT SINK	[M]
31	RSC0722	FL SHIELD A	[M]
32	RSC0728	FL SHIELD B	[M]
33	RSCX0090-1	REAR SHIELD PLATE	[M]
34	RUS757ZAA	CASS HALF SPRING	[M]
35	RXGX0003	DAMPER GEAR	[M]
36	RXXX0043	HEAT SINK UNIT	[M]
37	RYQ0484A-S	FUNCTION BTN UNIT	[M]
38	RYQ0485-Q	DISC BTN UNIT	[M]
39	RYQ0486-S	DVD LID UNIT	[M]
39-1	RMB0779	DVD LID SPRING	[M]
40	TUC25628	SMALL HEAT SINK	[M]
41	XTB3+10JFZ	SCREW	[M]
42	XTBS26+10J	SCREW	[M]
43	XTV3+10G	SCREW	[M]
44	XTW3+15T	SCREW	[M]
45	RKM0505A-S	SIDE PANEL (L)	[M]
46	RKM0506A-S	SIDE PANEL (R)	[M]

23.4. Electrical Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PRINTED CIRCUIT BOARD	
	REP3654W	DVD MODULE P.C.B. (SIDE: A)	[M](RTL)
	REP3654W	DVD MODULE P.C.B. (SIDE: B)	[M](RTL)
	REPX0410A	MAIN P.C.B.	[M](RTL)
	REPX0409A	PANEL P.C.B.	[M](RTL)
	REPX0408A	SPEAKER P.C.B.	[M](RTL)E/EG
	REPX0408E	SPEAKER P.C.B.	[M](RTL)EB
	REPX0410A	SCART P.C.B.	[M](RTL)
	REPX0408A	POWER P.C.B.	[M](RTL)E/EG
	REPX0408E	POWER P.C.B.	[M](RTL)EB
	REPX0408A	TRANSFORMER P.C.B.	[M](RTL)E/EG
	REPX0408E	TRANSFORMER P.C.B.	[M](RTL)EB
	REPX0411A	DECK P.C.B.	[M](RTL)
	REPX0411A	TAPE EJECT P.C.B.	[M](RTL)
	REPX0321C	DECK MECHANISM P.C.B.	[M](RTL)
	REP3569A	CD LOADING P.C.B.	[M](RTL)
		INTERGRATED CIRCUIT	
IC11	C0GAG0000007	IC UP/DOWN MOTOR DRIVE	[M]
IC21	C0GAG0000007	IC LOADING MOTOR DRIVE	[M]
IC601	C0HBB0000039	IC FL DISPLAY	[M]
IC971	CNB13030R2AU	IC PHOTO INTERRUPTER	[M]
IC1000	C1AA00000612	IC ANALOG SWITCH	[M]
IC1001	AN7326K	IC P/B REC AMP	[M]
IC2801	C2CBJG000403	IC MICRO-P	[M]
IC2803	C0DBAJG00002	IC REGULATOR	[M]
IC2804	C0DBAJG00002	IC REGULATOR	[M]
IC2805	C0DBEFG00003	IC REGULATOR	[M]
IC2806	C0DBZHG00016	IC REGULATOR	[M]
IC2807	C0DBZHE00011	IC REGULATOR	[M]
IC2808	C9ZB00000431	IC VIDEO	[M]
IC2809	C1AB00001731	IC VIDEO SWITCH	[M]
IC2810	C1AB00001731	IC VIDEO SWITCH	[M]
IC2811	C1BB00000715	IC RDS	[M]
IC2812	C1BB00000822	IC ASP	[M]
IC2813	C0AABB000085	IC OP AMP	[M]
IC2814	KIA4558FEL	IC OP AMP	[M]
IC5801	RSN314H41A-P	IC POWER AMP	[M]
IC8001	MN2DS0003APH	IC DV2.1 LSI	[M]
IC8051	C3ABPG000067	IC 64MB SDRAM	[M]
IC8111	C0CBCBD00018	IC POWER SUPPLY	[M]
IC8251	C0GBG0000044	IC MOTOR DRIVE	[M]
IC8271	C0GBF0000004	IC MOTOR DRIVE	[M]
IC8421	C0FBBK000035	IC A/D CONVERTER	[M]
IC8601	C0EBE0000384	IC VOLTAGE DETECTING	[M]
IC8605	C0EBA0000031	IC RESET	[M]
IC8651	RFKFMH81T160	IC FLASH ROM	[SPC]
IC8691	C0JBCA000066	IC AND GATE LOGIC	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
IC8695	**C0JBCA000066**	**IC AND GATE LOGIC**	**[M]**
		TRANSISTORS	
Q1	**B3NAA0000068**	**TRANSISTOR**	**[M]**
Q601	**KTC3875GRTA**	**TRANSISTOR**	**[M]**
Q602	**KTC3875GRTA**	**TRANSISTOR**	**[M]**
Q603	**KTC3875GRTA**	**TRANSISTOR**	**[M]**
Q611	**KRC107STA**	**TRANSISTOR**	**[M]**
Q1101	**2SD2114K1V**	**TRANSISTOR**	**[M]**
Q1201	**2SD2114K1V**	**TRANSISTOR**	**[M]**
Q1302	**B1GDCFJJ0002**	**TRANSISTOR**	**[M]**
Q1303	**B1GBCFGH0001**	**TRANSISTOR**	**[M]**
Q1304	**B1GDCFGH0002**	**TRANSISTOR**	**[M]**
Q1306	**B1ABCF000011**	**TRANSISTOR**	**[M]**
Q1307	**B1ABCF000011**	**TRANSISTOR**	**[M]**
Q1309	**B1AAGC000006**	**TRANSISTOR**	**[M]**
Q1310	**B1AAGC000006**	**TRANSISTOR**	**[M]**
Q1312	**B1ABCF000011**	**TRANSISTOR**	**[M]**
Q1314	**B1GDCFGH0002**	**TRANSISTOR**	**[M]**
Q1315	**KTA12710YTA**	**TRANSISTOR**	**[M]**
Q1316	**2SD09650RA**	**TRANSISTOR**	**[M]**
Q1317	**2SD2114K1V**	**TRANSISTOR**	**[M]**
Q2101	**KTC3875GRTA**	**TRANSISTOR**	**[M]**
Q2102	**B1ABGC000005**	**TRANSISTOR**	**[M]**
Q2103	**B1ABGC000005**	**TRANSISTOR**	**[M]**
Q2201	**KTC3875GRTA**	**TRANSISTOR**	**[M]**
Q2202	**B1ABGC000005**	**TRANSISTOR**	**[M]**
Q2203	**B1ABGC000005**	**TRANSISTOR**	**[M]**
Q2803	**KRC103STA**	**TRANSISTOR**	**[M]**
Q2805	**UNR221200L**	**TRANSISTOR**	**[M]**
Q2806	**2SB0621AHA**	**TRANSISTOR**	**[M]**
Q2807	**KTC3875GRTA**	**TRANSISTOR**	**[M]**
Q2808	**KTC3875GRTA**	**TRANSISTOR**	**[M]**
Q2809	**KTC3875GRTA**	**TRANSISTOR**	**[M]**
Q2810	**B1CABA000002**	**TRANSISTOR**	**[M]**
Q2811	**B1CABA000002**	**TRANSISTOR**	**[M]**
Q2812	**KRA102MTA**	**TRANSISTOR**	**[M]**
Q2813	**KRC102STA**	**TRANSISTOR**	**[M]**
Q2814	**KTA1504GRTA**	**TRANSISTOR**	**[M]**
Q2815	**KTA1504GRTA**	**TRANSISTOR**	**[M]**
Q2816	**B1ABGC000005**	**TRANSISTOR**	**[M]**
Q2817	**KRC101STA**	**TRANSISTOR**	**[M]**
Q2818	**KRC101STA**	**TRANSISTOR**	**[M]**
Q2819	**UNR211500L**	**TRANSISTOR**	**[M]**
Q2820	**KRC107STA**	**TRANSISTOR**	**[M]**
Q2821	**KTC3199GRTA**	**TRANSISTOR**	**[M]**
Q2822	**KTC3205YTA**	**TRANSISTOR**	**[M]**
Q2823	**KRC107STA**	**TRANSISTOR**	**[M]**
Q2826	**KRC102STA**	**TRANSISTOR**	**[M]**
Q2827	**KTC32030YTA**	**TRANSISTOR**	**[M]**
Q5101	**KTC3199GRTA**	**TRANSISTOR**	**[M]**
Q5102	**KTC3199GRTA**	**TRANSISTOR**	**[M]**
Q5201	**KTC3199GRTA**	**TRANSISTOR**	**[M]**

Ref. No.	Part No.	Part Name & Description	Remarks
Q5202	KTC3199GRTA	TRANSISTOR	[M]
Q5801	KTC2026	TRANSISTOR	[M]
Q5802	KTA1046	TRANSISTOR	[M]
Q5803	KTC3199GRTA	TRANSISTOR	[M]
Q5804	KTA1046	TRANSISTOR	[M]
Q5805	KRA110MTA	TRANSISTOR	[M]
Q5806	2SD0592ARA	TRANSISTOR	[M]
Q5807	B1ACCF000039	TRANSISTOR	[M]
Q5808	KTC3199GRTA	TRANSISTOR	[M]
Q5809	KTC3199GRTA	TRANSISTOR	[M]
Q5810	B1AAGC000007	TRANSISTOR	[M]
Q5901	2SB0621AHA	TRANSISTOR	[M]
Q5902	B1AAGC000007	TRANSISTOR	[M]
Q5903	KRC102MTA	TRANSISTOR	[M]
Q5904	2SD21370PA	TRANSISTOR	[M]
Q8550	2SB1219AHL	TRANSISTOR	[M]
Q8551	2SD1819A0L	TRANSISTOR	[M]
Q8552	2SB09700RL	TRANSISTOR	[M]
Q8560	2SD1819A0L	TRANSISTOR	[M]
Q8561	2SD1819A0L	TRANSISTOR	[M]
Q8562	2SB09700RL	TRANSISTOR	[M]
Q8605	2SD1819A0L	TRANSISTOR	[M]
Q8606	2SD1819A0L	TRANSISTOR	[M]
QR8420	UNR521100L	TRANSISTOR	[M]
QR8571	UNR511V00L	TRANSISTOR	[M]
		DIODES	
D601	UDZSTE176R2B	DIODE	[M]
D611	B3AEA0000041	DIODE	[M]
D612	B3AEA0000041	DIODE	[M]
D613	B3AEA0000041	DIODE	[M]
D614	B3AEA0000041	DIODE	[M]
D616	B3AAA0000583	DIODE	[M]
D617	B0BC8R100004	DIODE	[M]
D618	B0BC8R100004	DIODE	[M]
D619	B0BC8R100004	DIODE	[M]
D620	UDZSTE178R2B	DIODE	[M]
D971	MA2C16500E	DIODE	[M]
D1301	B0ACCK000005	DIODE	[M]
D2101	MA2J72800L	DIODE	[M]
D2201	MA2J72800L	DIODE	[M]
D2801	1SS380TE-17	DIODE	[M]
D2802	1SS380TE-17	DIODE	[M]
D2803	B0ACCK000005	DIODE	[M]
D2804	B0JCPC000004	DIODE	[M]
D2805	B0BC7R500001	DIODE	[M]
D2806	B0JCPC000004	DIODE	[M]
D2807	B0BC7R500001	DIODE	[M]
D2809	B0ACCK000005	DIODE	[M]
D2810	B0ACCK000005	DIODE	[M]
D2811	B0ACCK000005	DIODE	[M]
D2812	1SS380TE-17	DIODE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
D2813	B0ACCK000005	DIODE	[M]
D2814	B0ACCK000005	DIODE	[M]
D2815	B0BC5R600003	DIODE	[M]
D5801	B0FBAM000012	DIODE	[M]
D5802	B0EAKM000117	DIODE	[M]
D5803	B0AACK000004	DIODE	[M]
D5804	B0AACK000004	DIODE	[M]
D5805	B0AACK000004	DIODE	[M]
D5806	B0AACK000004	DIODE	[M]
D5807	B0AACK000004	DIODE	[M]
D5808	B0BA9R600002	DIODE	[M]EG/ E
D5808	B0BC9R000008	DIODE	[M]EB
D5809	MTZJ13BTA	DIODE	[M]
D5812	B0BA9R600002	DIODE	[M]EG/ E
D5812	MTZJ15BTA	DIODE	[M]EB
D5813	B0AACK000004	DIODE	[M]
D5814	B0AACK000004	DIODE	[M]
D5815	B0EAKM000117	DIODE	[M]
D5816	B0EAKM000117	DIODE	[M]
D5817	B0EAKM000117	DIODE	[M]
D5818	MTZJ15BTA	DIODE	[M]
D5819	B0AACK000004	DIODE	[M]
D5901	B0EAKM000117	DIODE	[M]
D5902	B0EAKM000117	DIODE	[M]
D5903	B0BA03100002	DIODE	[M]
D5904	B0EAKM000117	DIODE	[M]
D5905	B0EAKM000117	DIODE	[M]
D5906	B0EAKM000117	DIODE	[M]
D5907	B0EAKM000117	DIODE	[M]
D5908	B0AACK000004	DIODE	[M]
D5909	B0EAKM000117	DIODE	[M]
D5910	B0EAKM000117	DIODE	[M]
D5911	B0EAKM000117	DIODE	[M]
D5912	B0EAKM000117	DIODE	[M]
D5913	B0BA6R600008	DIODE	[M]
D5917	B0EAKM000117	DIODE	[M]
D8550	MA2S11100L	DIODE	[M]
D8571	MA2J72800L	DIODE	[M]
		CHIP INDUCTORS	
LB8001	J0JHC0000045	CHIP INDUCTOR	[M]
LB8002	J0JHC0000045	CHIP INDUCTOR	[M]
LB8011	ERJ3GEYJ220V	22 1/16W	[M]
LB8271	ERJ3GEY0R00V	0 1/16W	[M]
LB8272	ERJ3GEY0R00V	0 1/16W	[M]
LB8273	ERJ3GEY0R00V	0 1/16W	[M]
LB8301	J0JCC0000119	FERRITE BEAD	[M]
LB8302	J0JCC0000119	FERRITE BEAD	[M]
LB8303	J0JCC0000119	FERRITE BEAD	[M]
LB8304	J0JCC0000119	FERRITE BEAD	[M]
LB8305	J0JCC0000119	FERRITE BEAD	[M]
LB8401	ERJ3GEYJ151V	CHIP RESISTOR	[M]
LB8420	J0JCC0000091	FILTER	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
LB8421	J0JCC0000119	FERRITE BEAD	[M]
LB8422	J0JCC0000119	FERRITE BEAD	[M]
LB8423	ERJ3GEY0R00V	0 1/16W	[M]
LB8424	J0JCC0000091	FILTER	[M]
LB8491	J0JCC0000119	FERRITE BEAD	[M]
LB8501	ERJ3GEYJ222V	2.2K 1/16W	[M]
LB8502	J0JHC0000045	CHIP INDUCTOR	[M]
LB8503	ERJ3GEY0R00V	0 1/16W	[M]
LB8504	J0JCC0000091	FILTER	[M]
LB8505	J0JCC0000091	FILTER	[M]
LB8506	ERJ3GEYJ152V	1.5K 1/16W	[M]
LB8507	J0JCC0000091	FILTER	[M]
LB8511	ERJ3GEY0R00V	0 1/16W	[M]
LB8512	ERJ3GEY0R00V	0 1/16W	[M]
LB8513	ERJ3GEY0R00V	0 1/16W	[M]
LB8514	ERJ3GEY0R00V	0 1/16W	[M]
LB8690	J0JCC0000091	FILTER	[M]
LB8691	ERJ3GEYJ101V	100 1/16W	[M]
LB8692	ERJ3GEYJ101V	100 1/16W	[M]
LB8693	ERJ3GEYJ101V	100 1/16W	[M]
		VARIABLE RESISTOR	
VR601	EVEJ1F42124B	ENCODER	[M]
		SWITCHES	
S1	K0L1BA000065	SW STOCK	[M]
S2	K0L1BA000065	SW PLAY	[M]
S3	K0L1BA000078	SW BOTTOM	[M]
S4	RSH1A045-1A	SW OPEN	[M]
S5	K0L1BA000065	SW CHANGE	[M]
S602	EVQ11G09K	SW ADV SUR	[M]
S603	EVQ11G09K	SW OPEN/ CLOSE	[M]
S604	EVQ11G09K	SW DISC 5	[M]
S605	EVQ11G09K	SW DISC 4	[M]
S606	EVQ11G09K	SW DISC 3	[M]
S607	EVQ11G09K	SW DISC 2	[M]
S608	EVQ11G09K	SW POWER	[M]
S609	EVQ11G09K	SW DISC CECI	[M]
S610	EVQ11G09K	SW DISC_CHANGE	[M]
S611	EVQ11G09K	SW RE_MASTER	[M]
S613	EVQ11G09K	SW TUNER/ AUX	[M]
S614	EVQ11G09K	SW DVD/CD	[M]
S615	EVQ11G09K	SW STOP	[M]
S616	EVQ11G09K	SW TAPE	[M]
S617	EVQ11G09K	SW REC	[M]
S618	EVQ11G09K	SW DISC 1	[M]
S971	RSH1A018-3U	SW MODE	[M]
S972	RSH1A019-2U	SW HALF	[M]
S973	RSH1A019-2U	SW ATS/ CRO2	[M]
S974	RSH1A019-2U	SW RECINH_R	[M]
S975	RSH1A019-2U	SW RECINH_F	[M]
S1901	EVQ21405RJ	SW TAPE EJECT	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
		CONNECTORS	
CN1	K1MN14B00066	14P FFC CONNECTOR	[M]
CN601	K1ZZ00000832	CONNECTOR	[M]
CN602	K1MN16A00042	16P CONNECTOR	[M]
CN1305	K1MN21B00010	21P FFC CONNECTOR	[M]
CN2801	K1KB12B00036	12P CONNECTOR	[M]
CN2802	K1KB12B00036	12P CONNECTOR	[M]
CN2803	K1MN50A00008	50P CONNECTOR	[M]
CN2804	K1KA10A00263	10P CONNECTOR	[M]
CN2805	K1MN16A00042	16P CONNECTOR	[M]
CN2806	K1MN14C00004	14P FFC CONNECTOR	[M]
CN2807	K1MN21A00031	21P CONNECTOR	[M]
CN2808	K1KA02A00008	2P CONNECTOR	[M]
CN2809	K1KA12A00184	12P CONNECTOR	[M]
CN2812	K1KB12B00036	12P CONNECTOR	[M]
CN5801	RJT119W12V	12P CONNECTOR	[M]
CN5805	RJT119W08V	8P CONNECTOR	[M]
CN5901	K1KA04B00132	4P CONNECTOR	[M]
CN5909	REXX0320	2P STANDBY WIRE	[M]
CP1301	RJS1A6805-J	CONNECTOR	[M]
CP1902	K1KA09B00058	9P CONNECTOR	[M]
CP5802	K1KA12A00184	9P CONNECTOR	[M]
CP5803	K1KA12A00184	12P CONNECTOR	[M]
CS971	RJU071H09M1	CONNECTOR	[M]
FP8101	K1MN50B00031	50P CONNECTOR	[M]
FP8271	K1MN15B00041	15P CONNECTOR	[M]
FP8501	K1MN26B00094	26P CONNECTOR	[M]
		COILS & TRANSFORMERS	
L1301	7L1A62N	BIAS OCS COIL	[M]
L1302	RLQB470JTD-D	RF CHOKE COIL	[M]
L2101	J0JBC0000019	CHIP INDUCTOR	[M]
L2201	J0JBC0000019	CHIP INDUCTOR	[M]
L2801	G0C3R3JA0027	COIL	[M]
L2802	G0A101ZA0028	CHOKE COIL	[M]
L2803	G0A200D00002	RF CHOKE COIL	[M]
L2804	G0A200D00002	RF CHOKE COIL	[M]
L2805	G0A200D00002	RF CHOKE COIL	[M]
L2806	G0A101ZA0028	CHOKE COIL	[M]
L2807	G0A200D00002	RF CHOKE COIL	[M]
L2809	G0C220JA0019	COIL	[M]
L2810	J0JBC0000015	CHIP INDUCTOR	[M]
L2811	J0JBC0000015	CHIP INDUCTOR	[M]
L2812	J0JBC0000015	CHIP INDUCTOR	[M]
L2813	J0JCC0000186	CHIP COIL	[M]
L2814	J0JBC0000015	CHIP INDUCTOR	[M]
L2815	J0JBC0000015	CHIP INDUCTOR	[M]
L2816	J0JBC0000015	CHIP INDUCTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
L2817	G0C101JA0030	COIL	[M]
L2818	G0C101JA0030	COIL	[M]
L2819	G0C101JA0030	COIL	[M]
L2820	J0JBC0000019	CHIP INDUCTOR	[M]
L2821	ELJFC2R2KF	CHIP COIL	[M]
L2822	ELJFC2R2KF	CHIP COIL	[M]
L2823	ELJFC2R2KF	CHIP COIL	[M]
L2824	G0C4R7K00004	AXIAL COIL	[M]
L2825	J0JCC0000120	COIL	[M]
L2826	J0JCC0000120	COIL	[M]
L2827	J0JCC0000120	COIL	[M]
L2828	J0JCC0000120	COIL	[M]
L2840	G0A200D00002	RF CHOKE COIL	[M]
L2841	ERJ6GEY0R00V	0 1/10W	[M]
L2911	ELJFCR39KF	CHIP INDUCTOR	[M]
L5101	G0AR76Y00001	COIL	[M]
L5102	G0AR76Y00001	COIL	[M]
L5201	G0AR76Y00001	COIL	[M]
L5202	G0AR76Y00001	COIL	[M]
L5901	RLQZ371	CHOKE COIL	[M]
L8201	G1C100K00020	CHIP INDUCTOR	[M]
L8202	J0JCC0000079	CHIP INDUCTOR	[M]
L8301	G1C100KA0055	CHIP INDUCTOR	[M]
L8302	J0JCC0000079	CHIP INDUCTOR	[M]
L8420	G1C220KA0055	CHIP INDUCTOR	[M]
L8550	G1C100KA0055	CHIP INDUCTOR	[M]
T1	ENG07802QF	TUNER PACK	[M]
T5901	G4C6AFK00005	TRANSFORMER	[M] ⚠
T5902	RTP1H3E002	BACK-UP TRANSFORMER	[M] ⚠
		COMPONENT COMBINATIONS	
Z602	B3RAD0000073	REMOTE SENSOR	[M]
Z971	RGSD12A1445T	RADA RESISTOR	[M]
Z5901	ERZV10V511CS	ZENER	[M] ⚠
		RELAY	
RL5901	K6B1AEA00003	POWER RELAY	[M] ⚠
		OSCILLATORS	
X2801	H0A327200073	CRYSTAL OSCILLATOR	[M]
X2802	H2B100500004	CERAMIC RESONATOR	[M]
X2803	H0H433400001	CRYSTAL	[M]
X8621	H0J270500064	CRYSTAL	[M]
		DISPLAY TUBES	
FL601	A2BB00000125	FL DISPLAY	[M]
FL8101	F1H0J1050022	1 6.3V	[M]
FL8102	F1H0J1050022	1 6.3V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
FL8103	F1H0J1050022	1 6.3V	[M]
FL8104	F1J1E1040022	0.1 25V	[M]
		FUSE	
F1	K5D801BK0007	800MA FUSE	[M] ⚠
		FUSE HOLDERS	
FC1	EYF52BC	FUSE HOLDER	[M]
FC2	EYF52BC	FUSE HOLDER	[M]
		FUSE PROTECTORS	
FP5801	K5G400A00001	RESISTOR	[M] ⚠
FP5901	K5G402AA0002	FUSE PROTECTOR	[M] ⚠
FP5902	K5G102AA0002	FUSE PROTECTOR	[M] ⚠
		HOLDERS	
H5804	K1YF08000003	8P WIRE HOLDER	[M]
H5902	K1YF12000002	12P WIRE HOLDER	[M]
		JACKS	
JK2801	K2HA306B0080	JK 3P RCA	[M]
JK2802	K1U208B00002	JACK	[M]
JK2803	K7AABB000002	JK OPTICAL JACK	[M]
JK2804	K2HC103B0049	JK HEADPHONE	[M]
JK2805	K1FB121B0012	JK RGB CONNECTOR	[M]
JK5801	K4BC08B00013	JK SPEAKER	[M]
JK5901	K2AA2B000004	JK AC INLET	[M] ⚠
		EARTH TERMINALS	
E601	K9ZZ00000424	EARTH TERMINAL	[M]
E602	K9ZZ00000424	EARTH TERMINAL	[M]
E5801	SNE1004-2	EARTH TERMINAL	[M]
E5802	SNE1004-2	EARTH TERMINAL	[M]
		CHIP RESISTORS	
W5868	ERX1SZJR18P	0.18 1W	[M]
W5869	ERX1SZJR18P	0.18 1W	[M]
		WIRES	
WR308B	RWJ0102110SS	2P MTR WIRE	[M]
WR601	REXX0398	4P WIRE	[M]
WR1903	RWJ0102050KR	2P (MOTOR WIRE)	[M]
		RESISTORS	

Ref. No.	Part No.	Part Name & Description	Remarks
R601	ERJ3GEYJ102V	1K 1/16W	[M]
R602	ERJ3GEYJ102V	1K 1/16W	[M]
R603	D0GB122JA019	1.2K 1/16W	[M]
R604	ERJ3GEYJ182V	1.8K 1/16W	[M]
R605	ERJ3GEYJ222V	2.2K 1/16W	[M]
R606	D0GB272JA002	2.7K 1/16W	[M]
R607	ERJ3GEYJ102V	1K 1/16W	[M]
R608	ERJ3GEYJ102V	1K 1/16W	[M]
R609	D0GB122JA019	1.2K 1/16W	[M]
R610	ERJ3GEYJ182V	1.8K 1/16W	[M]
R611	ERJ3GEYJ222V	2.2K 1/16W	[M]
R612	D0GB272JA002	2.7K 1/16W	[M]
R613	ERJ3GEYJ472V	4.7K 1/16W	[M]
R614	ERJ3GEYJ682V	6.8K 1/16W	[M]
R615	ERJ3GEYJ103V	10K 1/16W	[M]
R616	ERJ3GEYJ472V	4.7K 1/16W	[M]
R617	D0GB562JA002	5.6K 1/16W	[M]
R618	D0GB101JA002	100 1/16W	[M]
R619	ERJ3GEYJ470V	47 1/16W	[M]
R621	ERJ3GEYJ151V	150 1/16W	[M]
R622	ERJ3GEYJ151V	150 1/16W	[M]
R623	ERJ3GEYJ104V	100K 1/16W	[M]
R624	ERJ3GEYJ104V	100K 1/16W	[M]
R625	ERJ3GEYJ102V	1K 1/16W	[M]
R626	ERJ3GEYJ102V	1K 1/16W	[M]
R627	ERJ3GEYJ102V	1K 1/16W	[M]
R628	ERJ3GEYJ102V	1K 1/16W	[M]
R629	ERJ3GEYJ103V	10K 1/16W	[M]
R631	ERJ3GEYJ102V	1K 1/16W	[M]
R632	ERJ3GEYJ102V	1K 1/16W	[M]
R633	ERJ3GEYJ102V	1K 1/16W	[M]
R634	ERJ3GEYJ102V	1K 1/16W	[M]
R635	D0GB821JA002	820 1/16W	[M]
R636	D0GB821JA002	820 1/16W	[M]
R637	ERJ3GEYJ102V	1K 1/16W	[M]
R638	ERJ3GEYJ102V	1K 1/16W	[M]
R643	ERJ3GEYJ102V	1K 1/16W	[M]
R644	D0GB821JA002	820 1/16W	[M]
R645	ERJ3GEYJ472V	4.7K 1/16W	[M]
R652	ERJ3GEYJ333V	33K 1/16W	[M]
R653	ERJ3GEYJ102V	1K 1/16W	[M]
R670	ERJ3GEY0R00V	0 1/16W	[M]
R671	ERJ3GEY0R00V	0 1/16W	[M]
R972	ERDS2TJ821T	820 1/4W	[M]
R973	ERDS2TJ393T	39K 1/4W	[M]
R1061	ERJ3GEY0R00V	0 1/16W	[M]
R1062	ERJ3GEY0R00V	0 1/16W	[M]
R1063	ERJ3GEY0R00V	0 1/16W	[M]
R1101	ERJ3GEYJ330V	33 1/16W	[M]
R1102	ERJ3GEYJ152V	1.5K 1/16W	[M]
R1103	ERJ3GEYJ183V	18K 1/16W	[M]
R1104	ERJ3GEYJ103V	10K 1/16W	[M]
R1105	ERJ3GEYJ222V	2.2K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R1106	ERJ3GEYJ104V	100K 1/16W	[M]
R1107	ERJ3GEYJ102V	1K 1/16W	[M]
R1109	ERJ3GEYJ102V	1K 1/16W	[M]
R1110	ERJ3GEYJ333V	33K 1/16W	[M]
R1201	ERJ3GEYJ330V	33 1/16W	[M]
R1202	ERJ3GEYJ152V	1.5K 1/16W	[M]
R1203	ERJ3GEYJ183V	18K 1/16W	[M]
R1204	ERJ3GEYJ103V	10K 1/16W	[M]
R1205	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1206	ERJ3GEYJ104V	100K 1/16W	[M]
R1207	ERJ3GEYJ102V	1K 1/16W	[M]
R1209	ERJ3GEYJ102V	1K 1/16W	[M]
R1210	ERJ3GEYJ333V	33K 1/16W	[M]
R1302	ERJ3GEYJ471V	470 1/16W	[M]
R1303	ERJ3GEYJ475V	4.7M 1/16W	[M]
R1304	ERJ3GEYJ223V	22K 1/16W	[M]
R1305	ERJ3GEYJ103V	10K 1/16W	[M]
R1309	ERDS1FVJ471T	470 1/2W	[M]
R1313	ERJ3GEYJ103V	10K 1/16W	[M]
R1314	ERJ3GEYJ102V	1K 1/16W	[M]
R1318	ERJ3GEYJ103V	10K 1/16W	[M]
R1319	ERJ3GEYJ123V	12K 1/16W	[M]
R1320	ERJ3GEYJ104V	100K 1/16W	[M]
R1321	D0GB470JA008	47 1/16W	[M]
R1322	D0GB823JA002	82K 1/16W	[M]
R1327	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1328	ERJ3GEYJ153V	15K 1/16W	[M]
R1329	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1330	ERD2FCVJ4R7T	4.7 1/4W	[M]
R1331	ERJ3GEYJ752V	7.5K 1/16W	[M]
R1332	ERJ3GEYJ103V	10K 1/16W	[M]
R1333	ERD2FCVJ4R7T	4.7 1/4W	[M]
R1334	ERJ3GEYJ223V	22K 1/16W	[M]
R1335	ERJ3GEYJ152V	1.5K 1/16W	[M]
R1337	ERJ3GEYJ103V	10K 1/16W	[M]
R1338	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1341	ERJ3GEYJ471V	470 1/16W	[M]
R1342	ERJ3GEYJ473V	47K 1/16W	[M]
R1343	ERJ3GEYJ332V	3.3K 1/16W	[M]
R1344	ERJ3GEYJ273V	27K 1/16W	[M]
R1345	ERJ3GEYJ102V	1K 1/16W	[M]
R1371	ERJ3GEYJ223V	22K 1/16W	[M]
R1374	ERJ3GEYJ471V	470 1/16W	[M]
R1380	ERJ3GEY0R00V	0 1/16W	[M]
R2001	ERJ3GEYJ103V	10K 1/16W	[M]
R2002	D0GB101JA002	100 1/16W	[M]
R2003	ERJ3GEY0R00V	0 1/16W	[M]
R2005	ERJ3GEYJ102V	1K 1/16W	[M]
R2006	ERJ3GEYJ102V	1K 1/16W	[M]
R2007	ERJ3GEYJ102V	1K 1/16W	[M]
R2008	ERJ3GEYJ103V	10K 1/16W	[M]
R2009	ERJ3GEYJ103V	10K 1/16W	[M]
R2011	ERDS1FVJ100T	10 1/2W	[M]
R2012	ERJ3GEY0R00V	0 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2015	ERJ3GEYJ104V	100K 1/16W	[M]
R2020	ERJ3GEY0R00V	0 1/16W	[M]
R2033	ERJ3GEY0R00V	0 1/16W	[M]
R2034	ERJ3GEY0R00V	0 1/16W	[M]
R2035	D0GB101JA002	100 1/16W	[M]
R2050	ERJ3GEYJ823V	82K 1/16W	[M]
R2057	ERJ3GEY0R00V	0 1/16W	[M]
R2058	ERJ3GEY0R00V	0 1/16W	[M]
R2061	ERJ3GEY0R00V	0 1/16W	[M]
R2062	ERJ3GEY0R00V	0 1/16W	[M]
R2080	ERJ3GEY0R00V	0 1/16W	[M]
R2081	ERJ3GEY0R00V	0 1/16W	[M]
R2082	ERJ3GEY0R00V	0 1/16W	[M]
R2101	ERJ3GEYJ823V	82K 1/16W	[M]
R2102	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2103	ERJ3GEYJ183V	18K 1/16W	[M]
R2104	D0GB122JA019	1.2K 1/16W	[M]
R2105	ERJ3GEY0R00V	0 1/16W	[M]
R2106	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2107	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2108	ERJ3GEYJ103V	10K 1/16W	[M]
R2109	D0GB152JA002	1.5K 1/16W	[M]
R2111	ERJ3GEY0R00V	0 1/16W	[M]
R2113	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2114	ERJ3GEYJ123V	12K 1/16W	[M]
R2115	ERJ3GEYJ473V	47K 1/16W	[M]
R2116	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2118	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2119	ERJ3GEYJ223V	22K 1/16W	[M]
R2120	ERJ3GEYJ393V	39K 1/16W	[M]
R2121	ERJ3GEYJ103V	10K 1/16W	[M]
R2122	ERJ3GEYJ102V	1K 1/16W	[M]
R2123	ERJ3GEYJ104V	100K 1/16W	[M]
R2124	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2125	ERJ3GEYJ123V	12K 1/16W	[M]
R2126	ERJ3GEYJ102V	1K 1/16W	[M]
R2127	ERJ3GEYJ104V	100K 1/16W	[M]
R2128	ERJ3GEYJ102V	1K 1/16W	[M]
R2129	ERJ3GEYJ390V	39 1/16W	[M]
R2130	ERJ3GEYJ390V	39 1/16W	[M]
R2131	D0GB332JA002	3.3K 1/16W	[M]
R2201	ERJ3GEYJ823V	82K 1/16W	[M]
R2202	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2203	ERJ3GEYJ183V	18K 1/16W	[M]
R2204	D0GB122JA019	1.2K 1/16W	[M]
R2205	ERJ3GEY0R00V	0 1/16W	[M]
R2206	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2207	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2208	ERJ3GEYJ103V	10K 1/16W	[M]
R2209	D0GB152JA002	1.5K 1/16W	[M]
R2211	ERJ3GEY0R00V	0 1/16W	[M]
R2213	ERJ3GEYJ123V	12K 1/16W	[M]
R2214	ERJ3GEYJ473V	47K 1/16W	[M]
R2215	ERJ3GEYJ182V	1.8K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2217	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2218	ERJ3GEYJ223V	22K 1/16W	[M]
R2219	ERJ3GEYJ393V	39K 1/16W	[M]
R2220	ERJ3GEYJ103V	10K 1/16W	[M]
R2221	ERJ3GEYJ102V	1K 1/16W	[M]
R2222	ERJ3GEYJ104V	100K 1/16W	[M]
R2223	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2224	ERJ3GEYJ123V	12K 1/16W	[M]
R2225	ERJ3GEYJ102V	1K 1/16W	[M]
R2226	ERJ3GEYJ104V	100K 1/16W	[M]
R2227	ERJ3GEYJ102V	1K 1/16W	[M]
R2228	ERJ3GEYJ390V	39 1/16W	[M]
R2229	ERJ3GEYJ390V	39 1/16W	[M]
R2230	D0GB332JA002	3.3K 1/16W	[M]
R2240	ERJ3GEYJ102V	1K 1/16W	[M]
R2241	ERJ3GEYJ102V	1K 1/16W	[M]
R2242	ERJ3GEY0R00V	0 1/16W	[M]
R2245	ERJ3GEY0R00V	0 1/16W	[M]
R2246	ERJ3GEY0R00V	0 1/16W	[M]
R2247	ERJ3GEY0R00V	0 1/16W	[M]
R2801	ERJ3GEYJ102V	1K 1/16W	[M]
R2802	ERJ3GEYJ102V	1K 1/16W	[M]
R2803	ERJ3GEYJ102V	1K 1/16W	[M]
R2804	ERJ3GEYJ102V	1K 1/16W	[M]
R2805	ERJ3GEYJ102V	1K 1/16W	[M]
R2808	ERJ3GEYJ103V	10K 1/16W	[M]
R2809	ERJ3GEYJ102V	1K 1/16W	[M]
R2810	ERJ3GEYJ103V	10K 1/16W	[M]
R2811	ERJ3GEYJ102V	1K 1/16W	[M]
R2812	ERJ3GEYJ102V	1K 1/16W	[M]
R2813	ERJ3GEYJ102V	1K 1/16W	[M]
R2814	ERJ3GEYJ102V	1K 1/16W	[M]
R2815	ERJ3GEYJ102V	1K 1/16W	[M]
R2816	ERJ3GEYJ102V	1K 1/16W	[M]
R2817	ERJ3GEYJ102V	1K 1/16W	[M]
R2818	ERJ3GEYJ102V	1K 1/16W	[M]
R2819	ERJ3GEYJ102V	1K 1/16W	[M]
R2820	ERJ3GEYJ102V	1K 1/16W	[M]
R2821	ERJ3GEYJ102V	1K 1/16W	[M]
R2822	ERJ3GEYJ103V	10K 1/16W	[M]
R2823	ERJ3GEYJ103V	10K 1/16W	[M]
R2824	ERJ3GEYJ223V	22K 1/16W	[M]
R2825	ERJ3GEYJ471V	470 1/16W	[M]
R2826	ERJ3GEYJ103V	10K 1/16W	[M]
R2827	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2828	ERJ3GEYJ102V	1K 1/16W	[M]
R2829	ERJ3GEYJ102V	1K 1/16W	[M]
R2830	ERJ3GEYJ102V	1K 1/16W	[M]
R2831	ERJ3GEYJ102V	1K 1/16W	[M]
R2833	ERJ3GEYJ331V	330 1/16W	[M]
R2834	ERJ3GEYJ102V	1K 1/16W	[M]
R2835	ERJ3GEYJ102V	1K 1/16W	[M]
R2836	ERJ3GEYJ102V	1K 1/16W	[M]
R2837	ERJ3GEYJ102V	1K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2838	ERJ3GEYJ102V	1K 1/16W	[M]
R2839	ERJ3GEYJ102V	1K 1/16W	[M]
R2840	ERJ3GEYJ102V	1K 1/16W	[M]
R2841	ERJ3GEYJ102V	1K 1/16W	[M]
R2842	ERJ3GEYJ102V	1K 1/16W	[M]
R2843	ERJ3GEYJ102V	1K 1/16W	[M]
R2847	ERJ3GEYJ102V	1K 1/16W	[M]
R2848	ERJ3GEYJ102V	1K 1/16W	[M]
R2849	D0GB101JA002	100 1/16W	[M]
R2850	ERJ3GEYJ102V	1K 1/16W	[M]
R2851	ERJ3GEYJ102V	1K 1/16W	[M]
R2852	ERJ3GEYJ102V	1K 1/16W	[M]
R2853	D0GB101JA002	100 1/16W	[M]
R2854	D0GB101JA002	100 1/16W	[M]
R2856	ERJ3GEYJ102V	1K 1/16W	[M]
R2857	ERJ3GEYJ102V	1K 1/16W	[M]
R2858	ERJ3GEYJ102V	1K 1/16W	[M]
R2859	ERJ3GEYJ103V	10K 1/16W	[M]
R2860	ERJ3GEYJ103V	10K 1/16W	[M]
R2861	ERJ3GEYJ473V	47K 1/16W	[M]
R2862	ERJ3GEYJ102V	1K 1/16W	[M]
R2863	D0GB101JA002	100 1/16W	[M]
R2864	D0GB101JA002	100 1/16W	[M]
R2865	D0GB101JA002	100 1/16W	[M]
R2866	D0GB101JA002	100 1/16W	[M]
R2867	D0GB101JA002	100 1/16W	[M]
R2868	D0GB101JA002	100 1/16W	[M]
R2869	D0GB101JA002	100 1/16W	[M]
R2870	D0GB101JA002	100 1/16W	[M]
R2871	D0GB101JA002	100 1/16W	[M]
R2872	D0GB101JA002	100 1/16W	[M]
R2873	ERJ3GEYJ182V	1.8K 1/16W	[M]
R2874	ERJ3GEYJ103V	10K 1/16W	[M]
R2875	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2876	D0GB101JA002	100 1/16W	[M]
R2877	ERJ3GEYJ102V	1K 1/16W	[M]
R2878	ERJ3GEYJ103V	10K 1/16W	[M]
R2879	ERJ3GEYJ103V	10K 1/16W	[M]
R2880	ERJ3GEYJ103V	10K 1/16W	[M]
R2881	ERJ3GEYJ103V	10K 1/16W	[M]
R2882	ERJ3GEYJ103V	10K 1/16W	[M]
R2883	ERJ3GEYJ103V	10K 1/16W	[M]
R2884	ERJ3GEYJ103V	10K 1/16W	[M]
R2885	ERJ3GEYJ103V	10K 1/16W	[M]
R2886	ERJ3GEYJ103V	10K 1/16W	[M]
R2887	ERJ3GEYJ223V	22K 1/16W	[M]
R2888	ERJ3GEYJ223V	22K 1/16W	[M]
R2889	ERJ3GEYJ223V	22K 1/16W	[M]
R2890	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2895	D0GB334JA002	330K 1/16W	[M]
R2896	ERJ3GEYJ106V	10M 1/16W	[M]
R2897	ERJ3GEYJ473V	47K 1/16W	[M]
R2898	ERJ3GEYJ681V	680 1/16W	[M]
R2899	ERJ3GEYJ223V	22K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2900	ERJ3GEYJ123V	12K 1/16W	[M]
R2901	D0GB101JA002	100 1/16W	[M]
R2902	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2903	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2904	D0GB333JA002	33K 1/16W	[M]
R2905	ERJ3GEYJ104V	100K 1/16W	[M]
R2906	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2907	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2908	ERJ3GEYJ391V	390 1/16W	[M]
R2909	ERJ3GEYJ102V	1K 1/16W	[M]
R2910	ERJ3GEYJ750V	75 1/16W	[M]
R2911	ERJ3GEYJ750V	75 1/16W	[M]
R2912	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2913	ERJ3GEYJ750V	75 1/16W	[M]
R2914	ERJ3GEYJ750V	75 1/16W	[M]
R2915	ERJ3GEYJ750V	75 1/16W	[M]
R2916	ERJ3GEYJ750V	75 1/16W	[M]
R2917	ERJ3GEYJ750V	75 1/16W	[M]
R2919	ERJ3GEYJ103V	10K 1/16W	[M]
R2920	ERJ3GEYJ563V	56K 1/16W	[M]
R2921	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2922	ERJ3GEYJ103V	10K 1/16W	[M]
R2923	D0GB562JA002	5.6K 1/16W	[M]
R2924	ERJ3GEYJ824V	820K 1/16W	[M]
R2925	D0GB101JA002	100 1/16W	[M]
R2926	ERJ3GEYJ563V	56K 1/16W	[M]
R2927	ERDS1FVJ270T	27 1/2W	[M]
R2928	ERJ3GEYJ563V	56K 1/16W	[M]
R2929	ERJ3GEYJ103V	10K 1/16W	[M]
R2930	ERJ3GEYJ824V	820K 1/16W	[M]
R2931	ERJ3GEYJ102V	1K 1/16W	[M]
R2932	ERJ3GEYJ104V	100K 1/16W	[M]
R2933	ERJ3GEYJ102V	1K 1/16W	[M]
R2934	ERJ3GEYJ102V	1K 1/16W	[M]
R2935	ERJ3GEYJ221V	220 1/16W	[M]
R2936	D0GB332JA002	3.3K 1/16W	[M]
R2937	D0GB332JA002	3.3K 1/16W	[M]
R2938	D0GB332JA002	3.3K 1/16W	[M]
R2939	D0GB332JA002	3.3K 1/16W	[M]
R2940	ERJ3GEYJ821V	820 1/16W	[M]
R2941	ERJ3GEYJ102V	1K 1/16W	[M]
R2942	D0GB152JA002	1.5K 1/16W	[M]
R2943	ERJ3GEYJ102V	1K 1/16W	[M]
R2944	ERJ3GEYJ123V	12K 1/16W	[M]
R2945	ERJ3GEYJ123V	12K 1/16W	[M]
R2946	D0GB562JA002	5.6K 1/16W	[M]
R2947	D0GB332JA002	3.3K 1/16W	[M]
R2948	ERJ3GEYJ123V	12K 1/16W	[M]
R2949	D0GB101JA002	100 1/16W	[M]
R2950	ERJ3GEYJ102V	1K 1/16W	[M]
R2951	ERJ3GEYJ102V	1K 1/16W	[M]
R2952	ERJ3GEYJ102V	1K 1/16W	[M]
R2953	D0GB272JA002	2.7K 1/16W	[M]
R2954	D0GB272JA002	2.7K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2955	D0GB273JA002	27K 1/16W	[M]
R2956	ERJ3GEYJ563V	56K 1/16W	[M]
R2957	ERJ3GEYJ103V	10K 1/16W	[M]
R2958	ERJ3GEYJ474V	470K 1/16W	[M]
R2959	ERJ3GEYJ102V	1K 1/16W	[M]
R2960	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2961	ERJ3GEYJ474V	470K 1/16W	[M]
R2983	ERJ3GEYJ100V	10 1/16W	[M]
R2984	ERJ3GEYJ102V	1K 1/16W	[M]
R2985	ERJ3GEYJ102V	1K 1/16W	[M]
R2986	ERJ3GEYJ750V	75 1/16W	[M]
R2987	ERJ3GEYJ103V	10K 1/16W	[M]
R2988	ERDS1FVJ100T	10 1/2W	[M]
R2989	ERJ3GEYJ471V	470 1/16W	[M]
R2990	ERJ3GEYJ103V	10K 1/16W	[M]
R2991	D0GB272JA002	2.7K 1/16W	[M]
R2992	ERJ3GEYJ820V	82 1/16W	[M]
R2993	D0GB152JA002	1.5K 1/16W	[M]
R2994	D0GB151JA008	150 1/16W	[M]
R2995	ERJ3GEYJ223V	22K 1/16W	[M]
R2996	ERJ3GEYJ183V	18K 1/16W	[M]
R2997	ERJ3GEY0R00V	0 1/16W	[M]
R2998	ERJ3GEY0R00V	0 1/16W	[M]
R2999	ERJ3GEY0R00V	0 1/16W	[M]
R5101	ERDS2TJ221T	220 1/4W	[M]
R5102	ERDS2TJ682T	6.8K 1/4W	[M]
R5103	ERDS2TJ682T	6.8K 1/4W	[M]
R5104	ERDS2TJ333T	33K 1/4W	[M]
R5105	D0AE272JA048	2.7K 1/4W	[M]EG/ E
R5105	ERDS2TJ472T	4.7K 1/4W	[M]EB
R5106	ERDS2TJ152T	1.5K 1/4W	[M]
R5107	ERDS2TJ153T	15K 1/4W	[M]
R5108	ERDS2TJ682T	6.8K 1/4W	[M]
R5109	ERDS2TJ823T	82K 1/4W	[M]
R5110	ERDS2TJ104T	100K 1/4W	[M]EG/ E
R5110	ERDS2TJ184T	180K 1/4W	[M]EB
R5111	ERDS2TJ103T	10K 1/4W	[M]
R5112	ERDS1FVJ100T	10 1/2W	[M]
R5113	ERDS1FVJ100T	10 1/2W	[M]
R5151	ERDS2TJ392T	3.9K 1/4W	[M]
R5152	ERDS2TJ183T	18K 1/4W	[M]
R5153	D0AE272JA048	2.7K 1/4W	[M]EG/ E
R5153	ERDS2TJ472T	4.7K 1/4W	[M]EB
R5154	ERDS2TJ821T	820 1/4W	[M]
R5155	ERDS2TJ153T	15K 1/4W	[M]
R5156	ERDS2TJ822T	8.2K 1/4W	[M]
R5157	ERDS2TJ823T	82K 1/4W	[M]
R5158	ERDS2TJ104T	100K 1/4W	[M]EB
R5158	ERDS2TJ124T	120K 1/4W	[M]EG/ E
R5159	D0AE223JA048	22K 1/4W	[M]
R5160	ERDS1FVJ100T	10 1/2W	[M]
R5161	ERDS1FVJ100T	10 1/2W	[M]
R5162	ERDS2TJ472T	4.7K 1/4W	[M]
R5201	ERDS2TJ221T	220 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R5202	ERDS2TJ682T	6.8K 1/4W	[M]
R5203	ERDS2TJ682T	6.8K 1/4W	[M]
R5204	ERDS2TJ333T	33K 1/4W	[M]
R5205	D0AE272JA048	2.7K 1/4W	[M]EG/ E
R5205	ERDS2TJ472T	4.7K 1/4W	[M]EB
R5206	ERDS2TJ152T	1.5K 1/4W	[M]
R5207	ERDS2TJ153T	15K 1/4W	[M]
R5208	ERDS2TJ682T	6.8K 1/4W	[M]
R5209	ERDS2TJ823T	82K 1/4W	[M]
R5210	ERDS2TJ104T	100K 1/4W	[M]EG/ E
R5210	ERDS2TJ683T	68K 1/4W	[M]EB
R5211	ERDS2TJ103T	10K 1/4W	[M]
R5212	ERDS1FVJ100T	10 1/2W	[M]
R5213	ERDS1FVJ100T	10 1/2W	[M]
R5251	ERDS2TJ392T	3.9K 1/4W	[M]
R5252	ERDS2TJ183T	18K 1/4W	[M]
R5253	D0AE272JA048	2.7K 1/4W	[M]EG/ E
R5253	ERDS2TJ472T	4.7K 1/4W	[M]EB
R5254	ERDS2TJ821T	820 1/4W	[M]
R5255	ERDS2TJ153T	15K 1/4W	[M]
R5256	ERDS2TJ822T	8.2K 1/4W	[M]
R5257	ERDS2TJ823T	82K 1/4W	[M]
R5258	ERDS2TJ124T	120K 1/4W	[M]EG/ E
R5258	ERDS2TJ394T	390K 1/4W	[M]EB
R5259	D0AE223JA048	22K 1/4W	[M]
R5260	ERDS1FVJ100T	10 1/2W	[M]
R5261	ERDS1FVJ100T	10 1/2W	[M]
R5262	ERDS2TJ472T	4.7K 1/4W	[M]
R5801	ERDS1FVJ2R2T	2.2 1/2W	[M]EB
R5801	ERDS1FVJ2R7T	2.7 1/2W	[M]EG/ E
R5802	ERDS1FVJ100T	10 1/2W	[M]EB
R5802	ERDS1FVJ2R7T	2.7 1/2W	[M]EG/ E
R5803	ERDS2TJ332T	3.3K 1/4W	[M]
R5804	ERDS2TJ151T	150 1/4W	[M]
R5805	ERDS2TJ391T	390 1/4W	[M]
R5806	D0AE272JA048	2.7K 1/4W	[M]
R5807	ERD2FCVG270T	27 1/4W	[M]EB
R5807	ERDS1FVJ270T	27 1/2W	[M]EG E
R5808	ERDS1FVJ150T	15 1/2W	[M]
R5809	ERDS2TJ332T	3.3K 1/4W	[M]
R5810	D0AE272JA048	2.7K 1/4W	[M]
R5811	ERDS2TJ2R2T	2.2 1/4W	[M]
R5812	ERDS2TJ2R2T	2.2 1/4W	[M]
R5813	ERDS2TJ2R2T	2.2 1/4W	[M]
R5814	ERDS2TJ122T	1.2K 1/4W	[M]
R5815	ERDS2TJ103T	10K 1/4W	[M]
R5818	ERDS2TJ331T	330 1/4W	[M]
R5819	ERD25FVJ270T	27 1/4W	[M]
R5820	ERD25FVJ270T	27 1/4W	[M]
R5821	ERDS2TJ392T	3.9K 1/4W	[M]
R5822	D0AE473JA048	47K 1/4W	[M]
R5823	D0AE473JA048	47K 1/4W	[M]
R5824	ERDS1FVJ331T	330 1/2W	[M]
R5825	ERDS1FVJ331T	330 1/2W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R5826	ERDS1FVJ331T	330 1/2W	[M]
R5827	ERDS2TJ104T	100K 1/4W	[M]EB
R5827	ERDS2TJ823T	82K 1/4W	[M]EG/ E
R5828	ERDS2TJ123T	12K 1/4W	[M]
R5829	D0AE223JA048	22K 1/4W	[M]
R5830	ERDS2TJ103T	10K 1/4W	[M]
R5831	ERDS2TJ332T	3.3K 1/4W	[M]
R5832	ERDS1FVJ2R7T	2.7 1/2W	[M]
R5833	ERDS1FVJ2R7T	2.7 1/2W	[M]
R5902	ERD2FCVJ4R7T	4.7 1/4W	[M]
R5903	D0AE472JA048	4.7K 1/4W	[M]
R5904	ERDS2TJ151T	150 1/4W	[M]
R5905	ERDS2TJ332T	3.3K 1/4W	[M]
R5906	ERDS2TJ103T	10K 1/4W	[M]
R5907	ERDS2TJ103T	10K 1/4W	[M]
R5908	ERDS2TJ821T	820 1/4W	[M]
R5911	ERDS2TJ151T	150 1/4W	[M]
R5912	ERDS1FVJ100T	10 1/2W	[M]
R5913	ERDS1FVJ100T	10 1/2W	[M]
R5914	ERDS1FVJ180T	18 1/2W	[M]
R8011	ERJ3GEY0R00V	0 1/16W	[M]
R8021	ERJ2GEJ103X	10K 2W	[M]
R8022	ERJ2GEJ103X	10K 2W	[M]
R8023	ERJ2GEJ473X	47K 2W	[M]
R8041	ERJ2GEJ330X	33 2W	[M]
R8232	ERJ2GEJ103X	10K 2W	[M]
R8233	ERJ3GEYJ153V	15K 1/16W	[M]
R8235	ERJ3GEYJ822V	8.2K 1/16W	[M]
R8236	ERJ3GEYJ822V	8.2K 1/16W	[M]
R8241	ERJ3GEYJ223V	22K 1/16W	[M]
R8242	ERJ3GEYJ752V	7.5K 1/16W	[M]
R8251	ERJ6GEYJ6R8V	6.8 1/10W	[M]
R8271	ERJ14YKR39U	0.39 1/4W	[M]
R8281	ERJ3GEYJ101V	100 1/16W	[M]
R8282	ERJ3GEYJ101V	100 1/16W	[M]
R8311	D0HB242ZA002	2.4K 3W	[M]
R8312	ERJ3RBD102V	1K 3W	[M]
R8313	D0HB243ZA002	24K 3W	[M]
R8314	ERJ3GEY0R00V	0 1/16W	[M]
R8315	ERJ3GEYJ6R8V	6.8 1/16W	[M]
R8321	D0HB161ZA002	160 3W	[M]
R8322	ERJ3RED100V	10 3W	[M]
R8325	D0HB161ZA002	160 3W	[M]
R8326	ERJ3RED100V	10 3W	[M]
R8331	ERJ3RED820V	82 3W	[M]
R8332	ERJ3GEY0R00V	0 1/16W	[M]
R8335	ERJ3RED820V	82 3W	[M]
R8341	ERJ3RED820V	82 3W	[M]
R8401	ERJ2GEJ473X	47K 2W	[M]
R8402	ERJ2GEJ101X	100 2W	[M]
R8404	ERJ2GEJ101X	100 2W	[M]
R8420	ERJ3GEYJ222V	2.2K 1/16W	[M]
R8421	ERJ3GEY0R00V	0 1/16W	[M]
R8501	ERJ3GEY0R00V	0 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R8550	ERJ3GEYJ752V	7.5K 1/16W	[M]
R8551	ERJ3GEY0R00V	0 1/16W	[M]
R8552	ERJ3GEYJ331V	330 1/16W	[M]
R8553	ERJ3GEYJ102V	1K 1/16W	[M]
R8554	ERJ3GEYJ220V	22 1/16W	[M]
R8555	ERJ3GEYJ2R2V	2.2 1/16W	[M]
R8556	ERJ3GEYJ560V	56 1/16W	[M]
R8557	ERJ3GEYJ510V	51 1/16W	[M]
R8558	ERJ3GEYJ473V	47K 1/16W	[M]
R8559	ERJ3GEYJ153V	15K 1/16W	[M]
R8560	ERJ3GEYJ102V	1K 1/16W	[M]
R8561	ERJ3GEY0R00V	0 1/16W	[M]
R8562	ERJ3GEYJ331V	330 1/16W	[M]
R8563	ERJ3GEYJ102V	1K 1/16W	[M]
R8564	ERJ3GEYJ100V	10 1/16W	[M]
R8565	ERJ3GEYJ2R2V	2.2 1/16W	[M]
R8566	ERJ3GEYJ560V	56 1/16W	[M]
R8567	ERJ3GEYJ510V	51 1/16W	[M]
R8568	ERJ3GEYJ473V	47K 1/16W	[M]
R8569	ERJ3GEYJ123V	12K 1/16W	[M]
R8570	ERJ3GEYJ104V	100K 1/16W	[M]
R8601	ERJ3GEYJ102V	1K 1/16W	[M]
R8605	ERJ3GEYJ104V	100K 1/16W	[M]
R8606	ERJ3GEYJ103V	10K 1/16W	[M]
R8611	ERJ2GEJ101X	100 2W	[M]
R8621	ERJ3GEYJ105V	1M 1/16W	[M]
R8622	ERJ3RBD471V	470 3W	[M]
K8002	ERJ2GE0R00X	0 1/4W	[M]
K8004	ERJ2GE0R00X	0 1/4W	[M]
K8007	ERJ2GE0R00X	0 1/4W	[M]
K8009	ERJ2GE0R00X	0 1/4W	[M]
K8100	ERJ3GEY0R00V	0 1/16W	[M]
K8321	ERJ2GE0R00X	0 1/4W	[M]
K8325	ERJ2GE0R00X	0 1/4W	[M]
K8331	ERJ2GE0R00X	0 1/4W	[M]
K8335	ERJ2GE0R00X	0 1/4W	[M]
K8341	ERJ2GE0R00X	0 1/4W	[M]
K8421	ERJ3GEY0R00V	0 1/16W	[M]
K8651	ERJ2GE0R00X	0 1/4W	[M]
RA8011	D1H88204A024	CHIP RESISTOR	[M]
RA8012	D1H88204A024	CHIP RESISTOR	[M]
RA8013	D1H88204A024	CHIP RESISTOR	[M]
RA8014	D1H88204A024	CHIP RESISTOR	[M]
RA8015	D1H422020001	CHIP RESISTOR	[M]
RA8016	D1H88204A024	CHIP RESISTOR	[M]
RA8017	D1H88204A024	CHIP RESISTOR	[M]
RA8018	D1H88204A024	CHIP RESISTOR	[M]
RA8021	D1H410320002	CHIP RESISTOR	[M]
RA8031	D1H447220001	CHIP RESISTOR	[M]
RA8032	D1H447220001	CHIP RESISTOR	[M]
RA8271	D1H410320002	CHIP RESISTOR	[M]
RA8401	D1H410120001	CHIP RESISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
RA8501	D1H456020001	CHIP RESISTOR	[M]
RA8502	D1H85604A024	CHIP RESISTOR	[M]
RA8503	D1H456020001	CHIP RESISTOR	[M]
RA8504	D1H456020001	CHIP RESISTOR	[M]
RA8611	D1H447220001	CHIP RESISTOR	[M]
		CAPACITORS	
C11	F1D1E103A001	0.01 25V	[M]
C12	F2A1C101A235	100P 16V	[M]
C21	F1D1E103A001	0.01 25V	[M]
C22	F2A1C101A235	100P 16V	[M]
C601	ECJ1VC1H101K	100P 50V	[M]
C602	ECJ1VC1H101K	100P 50V	[M]
C603	F1H1H103A219	0.01 50V	[M]
C604	F2A0J470A245	47P 6.3V	[M]
C621	F2A1H220A234	22P 50V	[M]
C622	F2A1H220A234	22P 50V	[M]
C623	F2A1H220A234	22P 50V	[M]
C624	F2A1H220A234	22P 50V	[M]
C625	ECJ1VB1H103K	0.01 50V	[M]
C626	ECJ1VC1H102J	1000P 50V	[M]
C627	ECJ1VC1H101J	100P 50V	[M]
C628	ECJ1VC1H101J	100P 50V	[M]
C629	ECJ1VB1A105K	1 10V	[M]
C630	F2A0J101A245	100P 6.3V	[M]
C631	ECJ1VC1H101K	100P 50V	[M]
C632	ECJ1VB1A105K	1 10V	[M]
C633	F2A0J101A245	100P 6.3V	[M]
C634	ECJ1VB1H102K	1000P 50V	[M]
C638	ECJ1VB1A105K	1 10V	[M]
C657	ECJ1VB1A105K	1 10V	[M]
C1101	ECA1HAK010XB	1 50V	[M]
C1102	ECJ1VB1H102K	1000P 50V	[M]
C1103	ECA1CAK101XB	100 16V	[M]
C1104	ECJ1VB1C273K	0.027 16V	[M]
C1105	ECJ1VB1H471K	470P 50V	[M]
C1106	ECA1HAK2R2XB	2.2 50V	[M]
C1107	F1H1H152A219	1500P 50V	[M]
C1108	ECA1CAK100XB	10 16V	[M]
C1109	ECA1HAK3R3XB	3.3 50V	[M]
C1110	F1H1H682A219	6800P 50V	[M]
C1121	ECJ1VB1H102K	1000P 50V	[M]
C1122	F1H1H103A219	0.01 50V	[M]
C1123	ECJ1VB1H271K	270P 50V	[M]
C1201	ECA1HAK010XB	1 50V	[M]
C1202	ECJ1VB1H102K	1000P 50V	[M]
C1203	ECA1CAK101XB	100 16V	[M]
C1204	ECJ1VB1C273K	0.027 16V	[M]
C1205	ECJ1VB1H471K	470P 50V	[M]
C1206	ECA1HAK2R2XB	2.2 50V	[M]
C1207	F1H1H152A219	1500P 50V	[M]
C1208	ECA1CAK100XB	10 16V	[M]
C1209	ECA1HAK3R3XB	3.3 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C1210	F1H1H682A219	6800P 50V	[M]
C1221	ECJ1VB1H102K	1000P 50V	[M]
C1222	F1H1H103A219	0.01 50V	[M]
C1223	ECJ1VB1H271K	270P 50V	[M]
C1301	ECA1HAK0R1XB	0.1 50V	[M]
C1302	ECJ1VB1C333K	0.033 16V	[M]
C1303	ECJ1VB1C333K	0.033 16V	[M]
C1304	ECA1HAK4R7XB	4.7 50V	[M]
C1305	ECA1CAK330XB	33 16V	[M]
C1307	ECA1AAK221XQ	220 10V	[M]
C1308	ECA1CAK220XB	22 16V	[M]
C1310	ECA1HAK0R1XB	0.1 50V	[M]
C1311	ECA1CAK470XB	47 16V	[M]
C1312	ECJ1VB1H332K	3300P 50V	[M]
C1314	ECJ1VB1H222K	2200P 50V	[M]
C1315	ECJ1VB1H222K	2200P 50V	[M]
C1316	ECJ1VB1H102K	1000P 50V	[M]
C1317	ECJ1VB1H102K	1000P 50V	[M]
C1318	ECQV1H473JZ3	0.047 50V	[M]
C1319	ECA1CAK101XB	100 16V	[M]
C1320	ECA1HAK010XB	1 50V	[M]
C1321	F0A2A472A019	4700P 100V	[M]
C1323	ECEA1HKN010B	1 50V	[M]
C1324	ECA1CAK470XB	47 16V	[M]
C1326	ECA1CAK100XB	10 16V	[M]
C1371	F1H1H103A219	0.01 50V	[M]
C2004	ECJ1VF1A105Z	1 10V	[M]
C2005	ECJ1VF1A105Z	1 10V	[M]
C2101	ECJ1VB1E473K	0.047 25V	[M]
C2102	ECJ1VB1H331K	330P 50V	[M]
C2103	ECA1CAK100XB	10 16V	[M]
C2104	ECJ1VB1H102K	1000P 50V	[M]
C2105	ECA1CAK100XB	10 16V	[M]
C2106	ECJ1VC1H221J	220P 50V	[M]
C2107	ECA1CAK100XB	10 16V	[M]
C2108	ECJ1VB1H102K	1000P 50V	[M]
C2109	ECA1CAK100XB	10 16V	[M]
C2110	ECJ1VC1H101J	100P 50V	[M]
C2111	ECA1CAK100XB	10 16V	[M]
C2112	ECJ1VC1H101J	100P 50V	[M]
C2113	ECA1CAK100XB	10 16V	[M]
C2114	ECJ1VB1H472K	4700P 50V	[M]
C2115	ECJ1VB1C153K	0.015 16V	[M]
C2116	ECJ1VB1C153K	0.015 16V	[M]
C2117	ECJ1VB1A154K	0.15 10V	[M]
C2118	ECJ1VB1A154K	0.15 10V	[M]
C2119	ECA1CAK100XB	10 16V	[M]
C2120	ECEA1HKAR47B	0.47 50V	[M]
C2122	ECJ1VB1H102K	1000P 50V	[M]
C2126	ECJ1VC1H470J	47P 50V	[M]
C2127	ECJ1VB1C273K	0.027 16V	[M]
C2128	ECA1CAK100XB	10 16V	[M]
C2129	ECJ1VB1H102K	1000P 50V	[M]
C2130	ECEA1CKA100B	10 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C2131	**ECA1HAK3R3XB**	**3.3 50V**	**[M]**
C2132	**ECJ1VB1H332K**	**3300P 50V**	**[M]**
C2201	**ECJ1VB1E473K**	**0.047 25V**	**[M]**
C2202	**ECJ1VB1H331K**	**330P 50V**	**[M]**
C2203	**ECA1CAK100XB**	**10 16V**	**[M]**
C2204	**ECJ1VB1H102K**	**1000P 50V**	**[M]**
C2205	**ECA1CAK100XB**	**10 16V**	**[M]**
C2206	**ECJ1VC1H221J**	**220P 50V**	**[M]**
C2207	**ECA1CAK100XB**	**10 16V**	**[M]**
C2208	**ECJ1VB1H102K**	**1000P 50V**	**[M]**
C2209	**ECA1CAK100XB**	**10 16V**	**[M]**
C2210	**ECJ1VC1H101J**	**100P 50V**	**[M]**
C2211	**ECA1CAK100XB**	**10 16V**	**[M]**
C2212	**ECJ1VC1H101J**	**100P 50V**	**[M]**
C2213	**ECA1CAK100XB**	**10 16V**	**[M]**
C2214	**ECJ1VF1A105Z**	**1 10V**	**[M]**
C2215	**ECJ1VB1H472K**	**4700P 50V**	**[M]**
C2216	**ECJ1VB1C153K**	**0.015 16V**	**[M]**
C2217	**ECJ1VB1C153K**	**0.015 16V**	**[M]**
C2218	**ECJ1VB1A154K**	**0.15 10V**	**[M]**
C2219	**ECJ1VB1A154K**	**0.15 10V**	**[M]**
C2220	**ECA1CAK100XB**	**10 16V**	**[M]**
C2221	**ECEA1HKAR47B**	**0.47 50V**	**[M]**
C2223	**ECJ1VB1H102K**	**1000P 50V**	**[M]**
C2227	**ECJ1VC1H470J**	**47P 50V**	**[M]**
C2228	**ECJ1VB1C273K**	**0.027 16V**	**[M]**
C2229	**ECA1CAK100XB**	**10 16V**	**[M]**
C2230	**ECJ1VB1H102K**	**1000P 50V**	**[M]**
C2231	**ECEA1CKA100B**	**10 16V**	**[M]**
C2232	**ECA1HAK3R3XB**	**3.3 50V**	**[M]**
C2233	**ECJ1VB1H332K**	**3300P 50V**	**[M]**
C2235	**ECJ1VB1H103K**	**0.01 50V**	**[M]**
C2237	**ECEA1HKA010B**	**1 50V**	**[M]**
C2801	**ECJ1VC1H101J**	**100P 50V**	**[M]**
C2802	**ECJ1VC1H101J**	**100P 50V**	**[M]**
C2803	**ECJ1VC1H101J**	**100P 50V**	**[M]**
C2804	**ECJ1VC1H101J**	**100P 50V**	**[M]**
C2805	**ECJ1VC1H101J**	**100P 50V**	**[M]**
C2806	**ECJ1VC1H101J**	**100P 50V**	**[M]**
C2810	**ECJ1VC1H101J**	**100P 50V**	**[M]**
C2811	**ECJ1VC1H101J**	**100P 50V**	**[M]**
C2812	**ECJ1VC1H101J**	**100P 50V**	**[M]**
C2813	**ECJ1VB1H471K**	**470P 50V**	**[M]**
C2814	**ECJ1VB1H471K**	**470P 50V**	**[M]**
C2815	**ECJ1VB1H471K**	**470P 50V**	**[M]**
C2816	**ECJ1VC1H101J**	**100P 50V**	**[M]**
C2817	**ECJ1VC1H101J**	**100P 50V**	**[M]**
C2818	**ECJ1VC1H101J**	**100P 50V**	**[M]**
C2819	**ECJ1VC1H101J**	**100P 50V**	**[M]**
C2820	**ECJ1VB1H471K**	**470P 50V**	**[M]**
C2821	**ECJ1VB1H103K**	**0.01 50V**	**[M]**
C2822	**ECJ1VB1H471K**	**470P 50V**	**[M]**
C2823	**ECJ1VB1H103K**	**0.01 50V**	**[M]**
C2824	**ECA1AAK220XB**	**22 10V**	**[M]**

Ref. No.	Part No.	Part Name & Description	Remarks
C2825	ECJ1VC1H101J	100P 50V	[M]
C2826	ECJ1VC1H101J	100P 50V	[M]
C2827	ECJ1VC1H101J	100P 50V	[M]
C2828	ECJ1VC1H101J	100P 50V	[M]
C2829	ECJ1VC1H101J	100P 50V	[M]
C2830	ECJ1VC1H101J	100P 50V	[M]
C2831	ECJ2VB1E223K	0.022 25V	[M]
C2832	ECJ1VC1H221J	220P 50V	[M]
C2839	ECJ1VC1H220J	22P 50V	[M]
C2840	F1H1H180A736	18P 50V	[M]
C2841	ECA0JAK101XB	100 6.3V	[M]
C2842	F1H1C104A067	0.1 16V	[M]
C2843	RCE1AM102B	1000P 10V	[M]
C2844	ECJ1VC1H101J	100P 50V	[M]
C2845	ECA1HAK010XB	1 50V	[M]
C2846	ECA1HAK2R2XB	2.2 50V	[M]
C2847	F1H1H103A219	0.01 50V	[M]
C2848	ECA1AAK220XB	22 10V	[M]
C2849	EEUFC0J821B	820P 6.3V	[M]
C2850	F1J1H104A459	0.1 50V	[M]
C2851	ECA1EAM331XB	330 25V	[M]
C2852	EEUFC0J821B	820P 6.3V	[M]
C2853	F1J1H104A459	0.1 50V	[M]
C2854	ECJ1VF1A105Z	10 10V	[M]
C2855	ECA1EAM331XB	330 25V	[M]
C2856	ECA1CAK470XB	47 16V	[M]
C2857	ECA0JM471B	470 6.3V	[M]
C2858	F1J1H104A459	0.1 50V	[M]
C2859	ECA1CAK100XB	10 16V	[M]
C2860	ECA1AAK221XB	220 10V	[M]
C2861	F1J1H104A459	0.1 50V	[M]
C2862	ECA1CAK470XB	47 16V	[M]
C2863	ECA1CM471B	470 16V	[M]
C2864	F1J1H104A459	0.1 50V	[M]
C2865	ECJ1VB1H102K	1000P 50V	[M]
C2866	ECJ1VB1H102K	1000P 50V	[M]
C2867	ECJ1VC1H101J	100P 50V	[M]
C2868	ECJ1VC1H101J	100P 50V	[M]
C2869	ECJ1VC1H101J	100P 50V	[M]
C2871	ECJ1VB1H103K	0.01 50V	[M]
C2872	F1J1H104A459	0.1 50V	[M]
C2873	ECEA0JKA220B	22 6.3V	[M]
C2874	ECJ1VF1A105Z	1 10V	[M]
C2875	ECJ1VF1A105Z	1 10V	[M]
C2876	ECJ1VF1A105Z	1 10V	[M]
C2878	ECJ1VB1H103K	0.01 50V	[M]
C2879	ECEA0JKA220B	22 6.3V	[M]
C2880	F1J1H104A459	0.1 50V	[M]
C2881	ECA0JAM102XB	1000 6.3V	[M]
C2882	ECA0JAM102XB	1000 6.3V	[M]
C2883	ECA0JAM102XB	1000 6.3V	[M]
C2884	ECA0JAM102XB	1000 6.3V	[M]
C2885	ECA0JAM102XB	1000 6.3V	[M]
C2886	F1J1H104A459	0.1 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C2887	**F1J1H104A459**	**0.1 50V**	**[M]**
C2888	**ECA1CAK330XB**	**33 16V**	**[M]**
C2889	**F1J1H104A459**	**0.1 50V**	**[M]**
C2890	**ECJ1VC1H101J**	**100P 50V**	**[M]**
C2891	**ECA1CAK470XB**	**47 16V**	**[M]**
C2892	**ECA0JAK101XB**	**100 6.3V**	**[M]**
C2893	**ECA1AAK221XB**	**220 10V**	**[M]**
C2894	**ECA1HAK2R2XB**	**2.2 50V**	**[M]**
C2895	**ECJ1VB1H102K**	**1000P 50V**	**[M]**
C2896	**ECJ1VC1H101J**	**100P 50V**	**[M]**
C2897	**ECA1HAK4R7XB**	**4.7 50V**	**[M]**
C2899	**ECA1HAK100XB**	**10 50V**	**[M]**
C2900	**ECJ1VB1H331K**	**330P 50V**	**[M]**
C2901	**ECA1HAK100XB**	**10 50V**	**[M]**
C2902	**ECJ1VB1H561K**	**560P 50V**	**[M]**
C2903	**ECJ1VC1H470J**	**47P 50V**	**[M]**
C2904	**ECJ1VC1H470J**	**47P 50V**	**[M]**
C2905	**ECA0JAK470XB**	**47 6.3V**	**[M]**
C2906	**ECJ1VC1H102J**	**1000P 50V**	**[M]**
C2907	**ECJ1VB1H103K**	**0.01 50V**	**[M]**
C2909	**ECJ1VC1H101J**	**100P 50V**	**[M]**
C2910	**ECJ1VC1H220J**	**22P 50V**	**[M]**
C2911	**ECJ1VB1H271K**	**270P 50V**	**[M]**
C2912	**ECJ1VB1H331K**	**330P 50V**	**[M]**
C2913	**ECJ1VC1H220J**	**22P 50V**	**[M]**
C2914	**ECJ1VB1H271K**	**270P 50V**	**[M]**
C2915	**ECJ1VB1H331K**	**330P 50V**	**[M]**
C2916	**ECJ1VC1H220J**	**22P 50V**	**[M]**
C2917	**ECJ1VB1H271K**	**270P 50V**	**[M]**
C2918	**ECJ1VB1H331K**	**330P 50V**	**[M]**
C2919	**ECJ1VB1E473K**	**0.047 25V**	**[M]**
C2920	**ECJ1VB1E473K**	**0.047 25V**	**[M]**
C2922	**F1D1H473A012**	**0.047 50V**	**[M]**
C2923	**ECA1HAK4R7XB**	**4.7 50V**	**[M]**
C2924	**F1J1H104A459**	**0.1 50V**	**[M]**
C2925	**F1J1H104A459**	**0.1 50V**	**[M]**
C2926	**F2A1E471A205**	**470P 25V**	**[M]**
C2927	**ECJ1VC1H470J**	**47P 50V**	**[M]**
C2928	**ECJ1VC1H470J**	**47P 50V**	**[M]**
C2929	**F2A1E471A205**	**470P 25V**	**[M]**
C2930	**F1J1H104A459**	**0.1 50V**	**[M]**
C2932	**ECJ1VB1C823K**	**0.082 16V**	**[M]**
C2933	**ECJ1VB1C823K**	**0.082 16V**	**[M]**
C2934	**ECA1CAK100XB**	**10 16V**	**[M]**
C2935	**ECJ1VB1H103K**	**0.01 50V**	**[M]**
C2936	**ECJ1VB1H103K**	**0.01 50V**	**[M]**
C2937	**ECEA1HKN4R7B**	**4.7 50V**	**[M]**
C2981	**F1J1H104A459**	**0.1 50V**	**[M]**
C2982	**ECJ1VC1H101J**	**100P 50V**	**[M]**
C2983	**ECJ1VC1H101J**	**100P 50V**	**[M]**
C2984	**ECJ1VC1H101J**	**100P 50V**	**[M]**
C2985	**F1J1H104A459**	**0.1 50V**	**[M]**
C2992	**ECA0JM471B**	**470 6.3V**	**[M]**
C2993	**ECA0JM471B**	**470 6.3V**	**[M]**

Ref. No.	Part No.	Part Name & Description	Remarks
C2994	**ECJ1VC1H220J**	**22P 50V**	**[M]**
C2995	**ECA0JAM102XB**	**1000 6.3V**	**[M]**
C2996	**ECA0JAM102XB**	**1000 6.3V**	**[M]**
C2997	**ECJ2VF1H104Z**	**0.1 50V**	**[M]**
C2998	**ECJ2FB1H104K**	**0.1 50V**	**[M]**
C5101	**F1D1H102A012**	**1000P 50V**	**[M]**
C5102	**ECBT1H333KB5**	**0.033 50V**	**[M]EB**
C5102	**F1D1H333A012**	**0.033 50V**	**[M]EG/ E**
C5103	**ECQB1H562JF3**	**5600P 50V**	**[M]**
C5104	**ECEA1HKA2R2B**	**2.2 50V**	**[M]**
C5105	**F1D1H821A012**	**820P 50V**	**[M]**
C5106	**F1D1H150A015**	**15P 50V**	**[M]**
C5107	**F1D1H473A012**	**0.047 50V**	**[M]**
C5108	**F1D1H473A012**	**0.047 50V**	**[M]**
C5151	**F1D1H682A046**	**6800P 50V**	**[M]**
C5152	**F1D1H682A046**	**6800P 50V**	**[M]**
C5153	**ECA1HAK010XB**	**1 50V**	**[M]**
C5154	**F1D1H821A012**	**820P 50V**	**[M]**
C5155	**F1D1H150A015**	**15P 50V**	**[M]**
C5156	**F1D1H473A012**	**0.047 50V**	**[M]**
C5157	**F1D1H473A012**	**0.047 50V**	**[M]**
C5158	**F1D1H1040002**	**0.1 50V**	**[M]**
C5201	**F1D1H102A012**	**1000P 50V**	**[M]**
C5202	**F1D1H333A012**	**0.033 50V**	**[M]**
C5203	**ECQB1H562JF3**	**5600P 50V**	**[M]**
C5204	**ECEA1HKA2R2B**	**2.2 50V**	**[M]**
C5205	**F1D1H821A012**	**820P 50V**	**[M]**
C5206	**F1D1H150A015**	**15P 50V**	**[M]**
C5207	**F1D1H473A012**	**0.047 50V**	**[M]**
C5208	**F1D1H473A012**	**0.047 50V**	**[M]**
C5251	**F1D1H682A046**	**6800P 50V**	**[M]**
C5252	**F1D1H682A046**	**6800P 50V**	**[M]**
C5253	**ECA1HAK010XB**	**1 50V**	**[M]**
C5254	**F1D1H821A012**	**820P 50V**	**[M]**
C5255	**F1D1H150A015**	**15P 50V**	**[M]**
C5256	**F1D1H473A012**	**0.047 50V**	**[M]**
C5257	**F1D1H473A012**	**0.047 50V**	**[M]**
C5258	**F1D1H1040002**	**0.1 50V**	**[M]**
C5801	**ECQE1104KF3**	**0.1 100V**	**[M]**
C5802	**ECA1HM332E**	**3300 50V**	**[M]**
C5803	**ECA1HM332E**	**3300 50V**	**[M]**
C5804	**ECA1EAM332XE**	**3300 25V**	**[M]**
C5805	**F1B1H103A007**	**0.01 50V**	**[M]**
C5806	**ECA1CAK101XB**	**100 16V**	**[M]**
C5807	**ECA1CAK100XB**	**10 16V**	**[M]**
C5808	**ECKR2H103ZF5**	**0.01 500V**	**[M]**
C5809	**ECA1HAK100XB**	**10 50V**	**[M]**
C5810	**ECA1CAK100XB**	**10 16V**	**[M]**
C5811	**ECA1CAK101XB**	**100 16V**	**[M]**
C5812	**ECKR2H103ZF5**	**0.01 500V**	**[M]**
C5813	**ECA1CAK100XB**	**10 16V**	**[M]**
C5814	**F1B1H103A007**	**0.01 50V**	**[M]**
C5815	**F1B1H103A007**	**0.01 50V**	**[M]**
C5816	**ECA1CAK470XB**	**47 16V**	**[M]**

Ref. No.	Part No.	Part Name & Description	Remarks
C5817	**F1E1H1030001**	**0.01 50V**	**[M]**
C5819	**ECKR2H103ZF5**	**0.01 500V**	**[M]**
C5820	**F1D1H102A012**	**1000P 50V**	**[M]**
C5821	**ECA0JM471B**	**470 6.3V**	**[M]EG/ E**
C5821	**ECA1AAK221XB**	**220 10V**	**[M]EB**
C5901	**ECA1HM101B**	**100 50V**	**[M]**
C5903	**F1B1H103A007**	**0.01 50V**	**[M]**
C5904	**ECA2AM100B**	**10 100V**	**[M]**
C5905	**ECA1HAM470XB**	**47 50V**	**[M]**
C5906	**ECQE1104KF3**	**0.1 100V**	**[M]**
C5907	**ECA1HAK4R7XB**	**4.7 50V**	**[M]**
C5908	**F1B1H103A007**	**0.01 50V**	**[M]**
C5909	**F1B1H103A007**	**0.01 50V**	**[M]**
C5912	**F2A1C1020029**	**1000P 16V**	**[M]**
C5914	**F1B1H103A007**	**0.01 50V**	**[M]**
C5915	**ECA1HAM470XB**	**47 50V**	**[M]**
C5916	**ECA1HAM470XB**	**47 50V**	**[M]**
C5917	**F1B1H103A007**	**0.01 50V**	**[M]**
C8001	**EEEFC0J101P**	**100P 6.3V**	**[M]**
C8002	**EEE0GA331WP**	**330P 4V**	**[M]**
C8003	**ECJ1VB1H222K**	**2200P 50V**	**[M]**
C8004	**ECJ0EF1C104Z**	**0.1 16V**	**[M]**
C8005	**ECJ1ZF1C104Z**	**0.1 16V**	**[M]**
C8006	**ECJ1ZF1C104Z**	**0.1 16V**	**[M]**
C8007	**ECJ0EF1C104Z**	**0.1 16V**	**[M]**
C8008	**ECJ1ZF1C104Z**	**0.1 16V**	**[M]**
C8009	**ECJ1ZF1C104Z**	**0.1 16V**	**[M]**
C8010	**ECJ0EF1C104Z**	**0.1 16V**	**[M]**
C8011	**F1H0J1050013**	**1 6.3V**	**[M]**
C8012	**ECJ1ZF1C104Z**	**0.1 16V**	**[M]**
C8013	**ECJ1ZF1C104Z**	**0.1 16V**	**[M]**
C8014	**ECJ1ZF1C104Z**	**0.1 16V**	**[M]**
C8015	**F1H0J1050013**	**1 6.3V**	**[M]**
C8016	**F1H0J1050013**	**1 6.3V**	**[M]**
C8017	**ECJ0EF1C104Z**	**0.1 16V**	**[M]**
C8018	**ECJ0EF1C104Z**	**0.1 16V**	**[M]**
C8019	**F1H0J1050013**	**1 6.3V**	**[M]**
C8020	**ECJ0EF1C104Z**	**0.1 16V**	**[M]**
C8021	**ECJ0EF1C104Z**	**0.1 16V**	**[M]**
C8022	**ECJ1ZF1C104Z**	**0.1 16V**	**[M]**
C8023	**F1H0J1050013**	**1 6.3V**	**[M]**
C8024	**ECJ1VB1H222K**	**2200P 50V**	**[M]**
C8025	**ECJ1ZF1C104Z**	**0.1 16V**	**[M]**
C8026	**F1H0J1050013**	**1 6.3V**	**[M]**
C8027	**ECJ0EF1C104Z**	**0.1 16V**	**[M]**
C8028	**F1H0J1050013**	**1 6.3V**	**[M]**
C8031	**ECJ1ZF1C104Z**	**0.1 16V**	**[M]**
C8051	**F1H0J1050013**	**1 6.3V**	**[M]**
C8052	**ECJ0EF1C104Z**	**0.1 16V**	**[M]**
C8053	**ECJ1VC1H221J**	**220P 50V**	**[M]**
C8054	**F1H0J1050013**	**1 6.3V**	**[M]**
C8055	**F1H0J1050013**	**1 6.3V**	**[M]**
C8056	**ECJ0EF1C104Z**	**0.1 16V**	**[M]**
C8057	**ECJ1VB1H222K**	**2200P 50V**	**[M]**

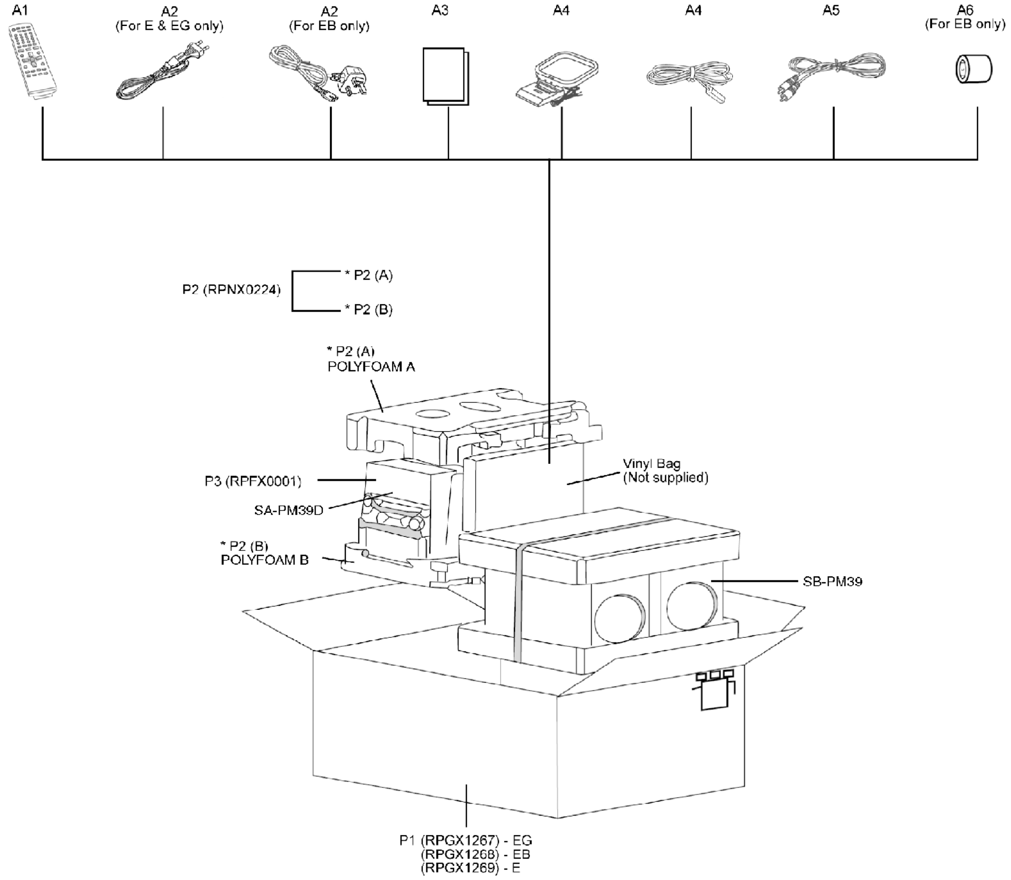
Ref. No.	Part No.	Part Name & Description	Remarks
C8111	F1H1C104A042	0.1 16V	[M]
C8112	ECJ2FB1A105K	1 10V	[M]
C8113	ECJ1VC1H471J	470P 50V	[M]
C8201	EEE0JA101WR	100P 6.3V	[M]
C8202	EEEFC0J101P	100P 6.3V	[M]
C8203	ECJ1ZF1C104Z	0.1 16V	[M]
C8204	ECJ1ZF1C104Z	0.1 16V	[M]
C8205	ECJ1ZF1C104Z	0.1 16V	[M]
C8206	F1H0J1050013	1 6.3V	[M]
C8207	ECJ1ZF1C104Z	0.1 16V	[M]
C8208	ECJ1ZF1C104Z	0.1 16V	[M]
C8211	ECJ1VB1C333K	0.033 16V	[M]
C8212	ECJ1ZF1C104Z	0.1 16V	[M]
C8213	ECJ1ZF1C104Z	0.1 16V	[M]
C8214	ECJ1ZF1C104Z	0.1 16V	[M]
C8215	ECJ1VB1H562K	5600P 50V	[M]
C8216	ECJ1VB1C183K	0.018 16V	[M]
C8217	F1H0J1050013	1 6.3V	[M]
C8218	F1H0J1050013	1 6.3V	[M]
C8221	F1H1C104A042	0.1 16V	[M]
C8222	F1H1C104A042	0.1 16V	[M]
C8223	F1H1C104A042	0.1 16V	[M]
C8224	F1H1C104A042	0.1 16V	[M]
C8225	ECJ1ZF1C104Z	0.1 16V	[M]
C8226	ECJ1ZF1C104Z	0.1 16V	[M]
C8227	ECJ1ZF1C104Z	0.1 16V	[M]
C8228	ECJ2FB1A105K	1 10V	[M]
C8229	ECJ2FB1A105K	1 10V	[M]
C8232	ECJ1ZF1C104Z	0.1 16V	[M]
C8233	ECJ1VB1H472K	4700P 50V	[M]
C8234	ECJ1ZF1C104Z	0.1 16V	[M]
C8235	ECJ1VC1H102J	1000P 50V	[M]
C8236	ECJ1VC1H102J	1000P 50V	[M]
C8237	ECJ1VC1H102J	1000P 50V	[M]
C8238	ECJ1VC1H821J	820P 50V	[M]
C8241	F1H1C104A042	0.1 16V	[M]
C8242	F1H1C104A042	0.1 16V	[M]
C8251	EEEFC0J221P	220P 6.3V	[M]
C8252	EEE1CA220WR	22P 16V	[M]
C8253	ECJ1ZF1C104Z	0.1 16V	[M]
C8254	ECJ1ZF1C104Z	0.1 16V	[M]
C8255	ECJ1ZF1C104Z	0.1 16V	[M]
C8261	ECJ1ZF1C104Z	0.1 16V	[M]
C8271	EEEFC1C470P	47P 16V	[M]
C8272	EEE0JA330WR	33P 6.3V	[M]
C8273	ECJ1ZF1C104Z	0.1 16V	[M]
C8274	ECJ1ZF1C104Z	0.1 16V	[M]
C8275	ECJ1ZF1C104Z	0.1 16V	[M]
C8284	ECJ1VB1H103K	0.01 50V	[M]
C8285	ECJ1VB1H103K	0.01 50V	[M]
C8286	ECJ1VB1H103K	0.01 50V	[M]
C8287	F1H1C104A042	0.1 16V	[M]
C8288	ECJ1ZF1C104Z	0.1 16V	[M]
C8301	EEE0JA221WP	220P 6.3V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C8302	EEE0JA330WR	33P 6.3V	[M]
C8303	ECJ1ZF1C104Z	0.1 16V	[M]
C8304	F1H0J1050013	1 6.3V	[M]
C8307	ECJ1ZF1C104Z	0.1 16V	[M]
C8311	ECJ1ZF1C104Z	0.1 16V	[M]
C8312	F1H0J1050013	1 6.3V	[M]
C8400	ECJ1VC1H150J	15P 50V	[M]
C8420	F2G0J331A015	330P 6.3V	[M]
C8421	F3F1A106A001	10 10V	[M]
C8423	ECJ1ZF1C104Z	0.1 16V	[M]
C8424	ECJ1ZF1C104Z	0.1 16V	[M]
C8425	F3F1A106A001	10 10V	[M]
C8456	ECJ1ZF1C104Z	0.1 16V	[M]
C8501	F1K1A1060017	10 10V	[M]
C8502	ECJ1ZF1C104Z	0.1 16V	[M]
C8503	ECJ1ZF1C104Z	0.1 16V	[M]
C8504	ECJ1ZF1C104Z	0.1 16V	[M]
C8505	ECJ1VC1H221J	220P 50V	[M]
C8506	ECJ1VC1H101J	100P 50V	[M]
C8550	EEE0JA330WR	33P 6.3V	[M]
C8551	ECJ1ZF1C104Z	0.1 16V	[M]
C8552	EEEFC1C100R	10P 16V	[M]
C8553	EEE0JA470WR	47P 6.3V	[M]
C8554	F1H0J1050013	1 6.3V	[M]
C8561	ECJ1ZF1C104Z	0.1 16V	[M]
C8562	EEEFC1C100R	10P 16V	[M]
C8563	EEE0JA470WR	47P 6.3V	[M]
C8564	F1H0J1050013	1 6.3V	[M]
C8601	ECJ0EF1C104Z	0.1 16V	[M]
C8605	ECJ0EF1C104Z	0.1 16V	[M]
C8606	ECJ1VB1A224K	0.22 10V	[M]
C8611	ECJ1ZF1C104Z	0.1 16V	[M]
C8621	ECJ1VC1H390J	39P 50V	[M]
C8622	ECJ1VC1H050D	5P 50V	[M]
C8651	ECJ1ZF1C104Z	0.1 16V	[M]
C8652	ECJ1ZF1C104Z	0.1 16V	[M]
C8691	ECJ0EF1C104Z	0.1 16V	[M]
C8695	ECJ0EF1C104Z	0.1 16V	[M]

23.5. Packing Materials & Accessories Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPGX1267	PACKING CASE	[M]EG
P1	RPGX1268	PACKING CASE	[M]EB
P1	RPGX1269	PACKING CASE	[M]E
P2	RPNX0224	POLYFOAM	[M]
P3	RPHV0001	MIRAMAT SHEET	[M]
		ACCESSORIES	
A1	N2QAJB000099	REMOTE CONTROL	[M]
A1-1	RKK-HTR0051K	R/C BATTERY COVER	[M]
A2	K2CQ2CA00002	AC CORD	[M]EG/ E ⚠
A2	VJA0733	AC CORD	[M]EB ⚠
A3	RQT7502-B	O/I BOOK (En)	[M]E/EB
A3	RQT7503-R	O/I BOOK (Sp/Po/Cz)	[M]E
A3	RQT7504-D	O/I BOOK (Ge/It/Fr)	[M]EG
A3	RQT7505-H	O/I BOOK (Sw/Da/Du)	[M]EG
A4	N1DAAAA00001	AM LOOP ANTENNA	[M]
A4	RSA0007-L	FM ANTENNA WIRE	[M]
A5	RJL1P016B15A	VIDEO CABLE	[M]
A6	K1YZ02000013	ANT ADAPTOR	[M]EB

23.6. Packaging


A1
A2
(For E & EG only)
A2
(For EB only)
A3
A4
A4
A5
A6
(For EB only)
P2 (RPNX0224)
* P2 (A)
* P2 (B)
* P2 (A)
POLYFOAM A
P3 (RPFX0001)
SA-PM39D
* P2 (B)
POLYFOAM B
Vinyl Bag
(Not supplied)
SB-PM39
P1 (RPGX1267) - EG
(RPGX1268) - EB
(RPGX1269) - E

PRT0403 D/E/J/N/S/A

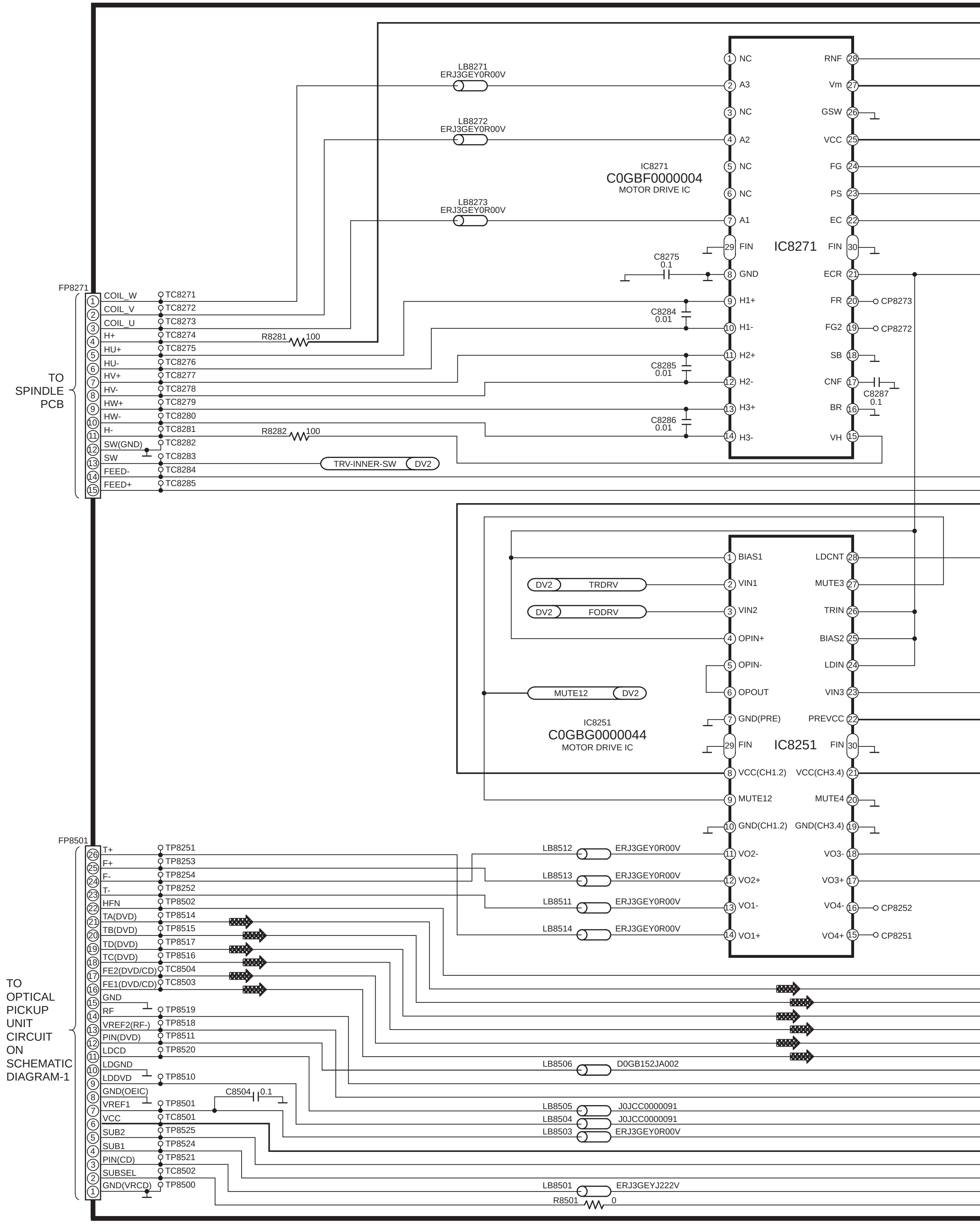
SCHEMATIC DIAGRAM - 2

A

DVD MODULE (IN/OUT) CIRCUIT

: +B SIGNAL LINE

: CD-DA SIGNAL LINE



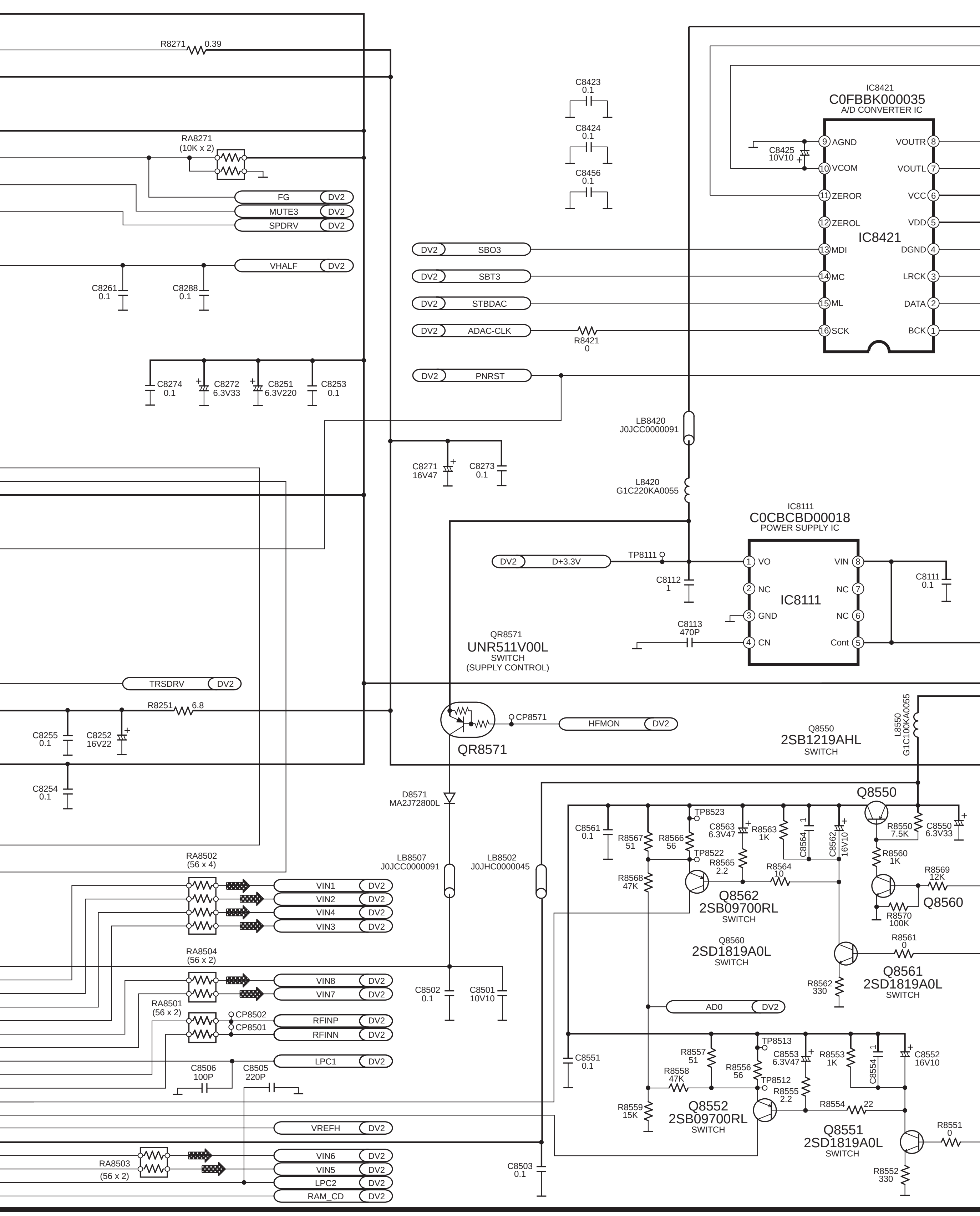
IC8271
C0GBF0000004
MOTOR DRIVE IC
1 NC
2 A3
3 NC
4 A2
5 NC
6 NC
7 A1
29 FIN
8 GND
9 H1+
10 H1-
11 H2+
12 H2-
13 H3+
14 H3-
RNF 28
Vm 27
GSW 26
VCC 25
FG 24
PS 23
EC 22
FIN 30
ECR 21
FR 20
FG2 19
SB 18
CNF 17
BR 16
VH 15
CP8273
CP8272
C8287 0.1
LB8271 ERJ3GEY0R00V
LB8272 ERJ3GEY0R00V
LB8273 ERJ3GEY0R00V
C8275 0.1
C8284 0.01
C8285 0.01
C8286 0.01
R8281 100
R8282 100
FP8271
1 COIL_W TC8271
2 COIL_V TC8272
3 COIL_U TC8273
4 H+ TC8274
5 HU+ TC8275
6 HU- TC8276
7 HV+ TC8277
8 HV- TC8278
9 HW+ TC8279
10 HW- TC8280
11 H- TC8281
12 SW(GND) TC8282
13 SW TC8283
14 FEED- TC8284
15 FEED+ TC8285
TO SPINDLE PCB
TRV-INNER-SW DV2
IC8251
C0GBG0000044
MOTOR DRIVE IC
1 BIAS1
2 VIN1
3 VIN2
4 OPIN+
5 OPIN-
6 OPOUT
7 GND(PRE)
29 FIN
8 VCC(CH1.2)
9 MUTE12
10 GND(CH1.2)
11 VO2-
12 VO2+
13 VO1-
14 VO1+
LDCNT 28
MUTE3 27
TRIN 26
BIAS2 25
LDIN 24
VIN3 23
PREVCC 22
FIN 30
VCC(CH3.4) 21
MUTE4 20
GND(CH3.4) 19
VO3- 18
VO3+ 17
VO4- 16
VO4+ 15
CP8252
CP8251
DV2 TRDRV
DV2 FODRV
MUTE12 DV2
LB8512 ERJ3GEY0R00V
LB8513 ERJ3GEY0R00V
LB8511 ERJ3GEY0R00V
LB8514 ERJ3GEY0R00V
FP8501
26 T+ TP8251
25 F+ TP8253
24 F- TP8254
23 T- TP8252
22 HFN TP8502
21 TA(DVD) TP8514
20 TB(DVD) TP8515
19 TD(DVD) TP8517
18 TC(DVD) TP8516
17 FE2(DVD/CD) TC8504
16 FE1(DVD/CD) TC8503
15 GND
14 RF TP8519
13 VREF2(RF-) TP8518
12 PIN(DVD) TP8511
11 LDCD TP8520
10 LDGND
9 LDDVD TP8510
8 GND(OEIC)
7 VREF1 TP8501
6 VCC TC8501
5 SUB2 TP8525
4 SUB1 TP8524
3 PIN(CD) TP8521
2 SUBSEL TC8502
1 GND(VRCD) TP8500
TO OPTICAL PICKUP UNIT CIRCUIT ON SCHEMATIC DIAGRAM-1
C8504 0.1
LB8506 D0GB152JA002
LB8505 J0JCC0000091
LB8504 J0JCC0000091
LB8503 ERJ3GEY0R00V
LB8501 ERJ3GEYJ222V
R8501 0

SCHEMATIC DIAGRAM - 3

A DVD MODULE (IN/OUT) CIRCUIT

: +B SIGNAL LINE

▨ : CD-DA SIGNAL LINE

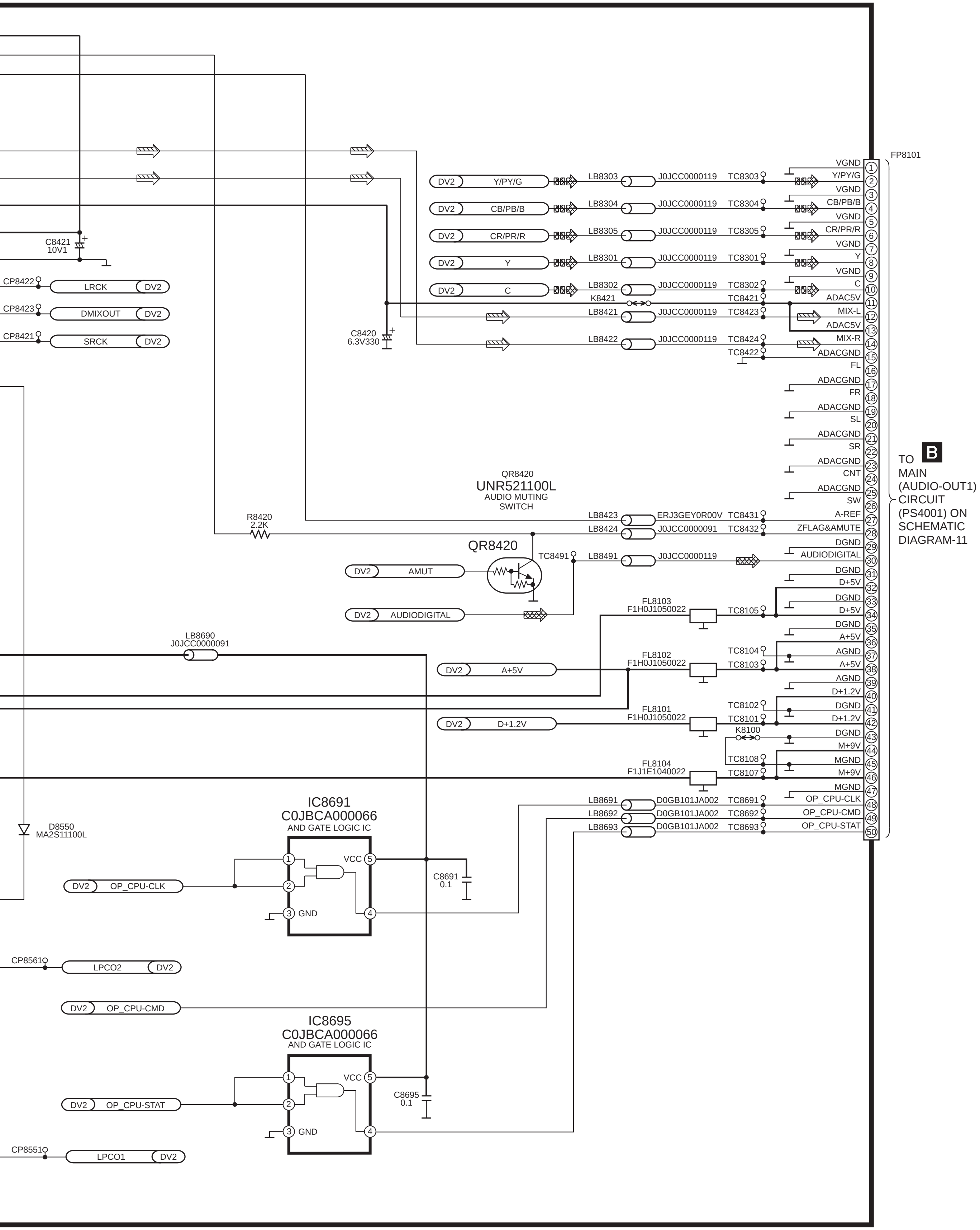


R8271 0.39
RA8271 (10K x 2)
FG DV2
MUTE3 DV2
SPDRV DV2
VHALF DV2
C8261 0.1
C8288 0.1
C8274 0.1
C8272 6.3V33
C8251 6.3V220
C8253 0.1
C8423 0.1
C8424 0.1
C8456 0.1
IC8421
C0FBBK000035
A/D CONVERTER IC
C8425 10V10
9 AGND
10 VCOM
11 ZEROR
12 ZEROL
13 MDI
14 MC
15 ML
16 SCK
VOUTR 8
VOUTL 7
VCC 6
VDD 5
DGND 4
LRCK 3
DATA 2
BCK 1
IC8421
DV2 SBO3
DV2 SBT3
DV2 STBDAC
DV2 ADAC-CLK
R8421 0
DV2 PNRST
LB8420 J0JCC0000091
L8420 G1C220KA0055
C8271 16V47
C8273 0.1
IC8111
C0CBCBD00018
POWER SUPPLY IC
TP8111
DV2 D+3.3V
C8112 1
1 VO
2 NC
3 GND
4 CN
VIN 8
NC 7
NC 6
Cont 5
IC8111
C8113 470P
C8111 0.1
QR8571
UNR511V00L
SWITCH
(SUPPLY CONTROL)
TRSDRV DV2
R8251 6.8
C8255 0.1
C8252 16V22
C8254 0.1
QR8571
CP8571
HFMON DV2
L8550 G1C100KA0055
Q8550
2SB1219AHL
SWITCH
D8571 MA2J72800L
Q8550
TP8523
C8561 0.1
R8567 51
R8566 56
C8563 6.3V47
R8563 1K
C8564 1
C8562 16V10
R8550 7.5K
C8550 6.3V33
TP8522
R8565 2.2
R8560 1K
R8568 47K
R8564 10
R8569 12K
Q8562
2SB09700RL
SWITCH
R8570 100K
Q8560
Q8560
2SD1819A0L
SWITCH
R8561 0
Q8561
2SD1819A0L
SWITCH
R8562 330
RA8502 (56 x 4)
VIN1 DV2
VIN2 DV2
VIN4 DV2
VIN3 DV2
LB8507 J0JCC0000091
LB8502 J0JHC0000045
RA8504 (56 x 2)
VIN8 DV2
VIN7 DV2
C8502 0.1
C8501 10V10
RA8501 (56 x 2)
CP8502
CP8501
RFINP DV2
RFINN DV2
AD0 DV2
LPC1 DV2
C8506 100P
C8505 220P
VREFH DV2
RA8503 (56 x 2)
VIN6 DV2
VIN5 DV2
LPC2 DV2
RAM_CD DV2
C8503 0.1
C8551 0.1
TP8513
R8557 51
C8553 6.3V47
R8553 1K
C8554 1
C8552 16V10
R8558 47K
R8556 56
TP8512
R8555 2.2
R8559 15K
Q8552
2SB09700RL
SWITCH
R8554 22
Q8551
2SD1819A0L
SWITCH
R8551 0
R8552 330

SCHEMATIC DIAGRAM - 4

A DVD MODULE (IN/OUT) CIRCUIT

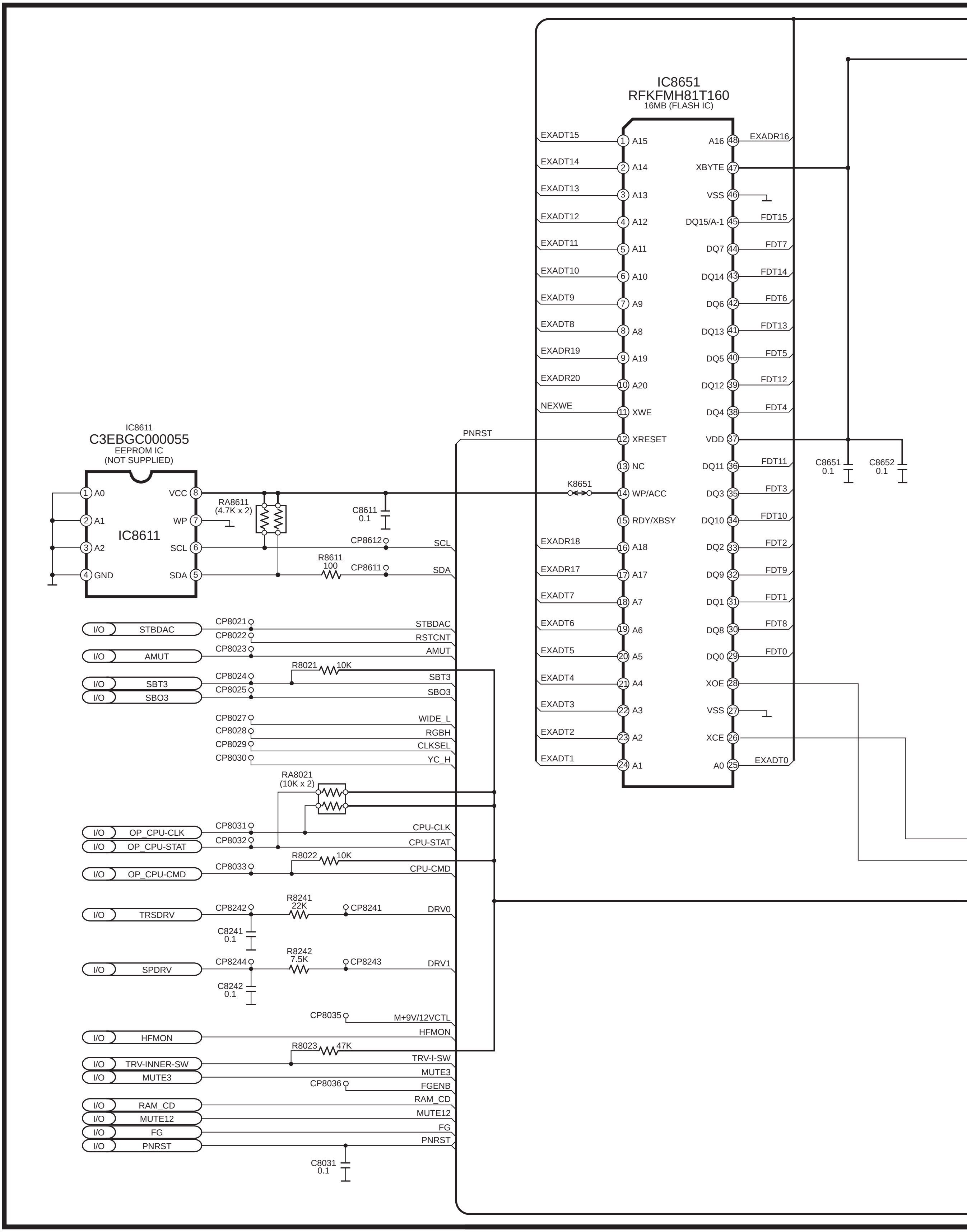
: MAIN SIGNAL LINE
: +B SIGNAL LINE
: DVD AUDIO SIGNAL LINE
: DVD VIDEO SIGNAL LINE


FP8101
C8421
10V1
CP8422
LRCK
DV2
CP8423
DMIXOUT
CP8421
SRCK
C8420
6.3V330
Y/PY/G
CB/PB/B
CR/PR/R
Y
C
LB8303
LB8304
LB8305
LB8301
LB8302
K8421
LB8421
LB8422
J0JCC0000119
TC8303
TC8304
TC8305
TC8301
TC8302
TC8421
TC8423
TC8424
TC8422
VGND
ADAC5V
MIX-L
MIX-R
ADACGND
FL
FR
SL
SR
CNT
SW
A-REF
ZFLAG&AMUTE
DGND
AUDIODIGITAL
D+5V
A+5V
AGND
D+1.2V
M+9V
MGND
OP_CPU-CLK
OP_CPU-CMD
OP_CPU-STAT
TO B MAIN (AUDIO-OUT1) CIRCUIT (PS4001) ON SCHEMATIC DIAGRAM-11
QR8420
UNR521100L
AUDIO MUTING SWITCH
R8420
2.2K
LB8423
LB8424
ERJ3GEY0R00V
J0JCC0000091
TC8431
TC8432
QR8420
TC8491
LB8491
AMUT
FL8103
F1H0J1050022
TC8105
LB8690
J0JCC0000091
FL8102
TC8104
TC8103
FL8101
TC8102
TC8101
K8100
TC8108
FL8104
F1J1E1040022
TC8107
LB8691
LB8692
LB8693
D0GB101JA002
TC8691
TC8692
TC8693
D8550
MA2S11100L
IC8691
C0JBCA000066
AND GATE LOGIC IC
VCC
GND
C8691
0.1
CP8561
LPCO2
IC8695
C0JBCA000066
AND GATE LOGIC IC
C8695
0.1
CP8551
LPCO1

SCHEMATIC DIAGRAM - 5

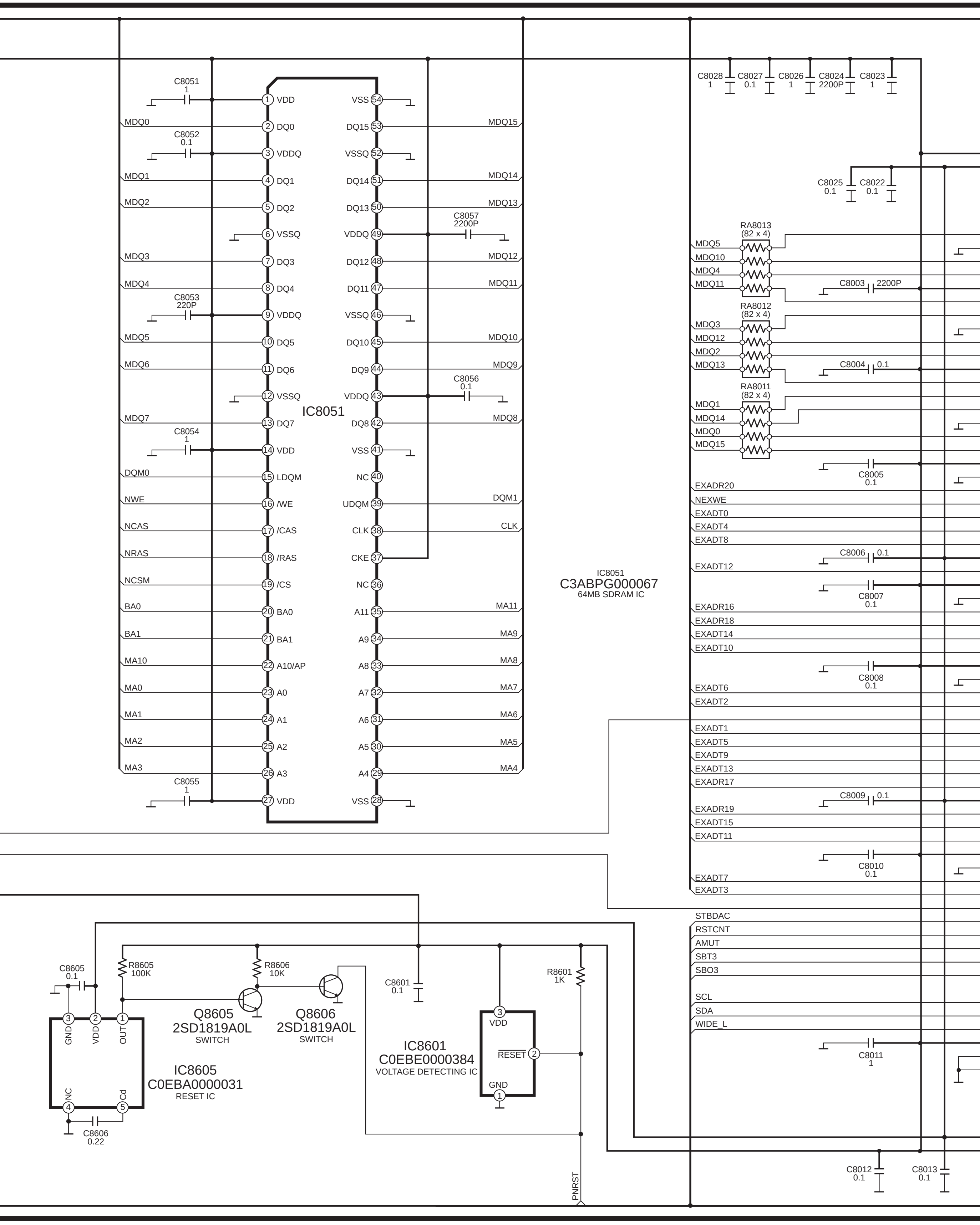
A DVD MODULE (DV2) CIRCUIT

: +B SIGNAL LINE


IC8651
RFKFMH81T160
16MB (FLASH IC)
EXADT15
1 A15
EXADT14
2 A14
EXADT13
3 A13
EXADT12
4 A12
EXADT11
5 A11
EXADT10
6 A10
EXADT9
7 A9
EXADT8
8 A8
EXADR19
9 A19
EXADR20
10 A20
NEXWE
11 XWE
PNRST
12 XRESET
13 NC
K8651
14 WP/ACC
15 RDY/XBSY
EXADR18
16 A18
EXADR17
17 A17
EXADT7
18 A7
EXADT6
19 A6
EXADT5
20 A5
EXADT4
21 A4
EXADT3
22 A3
EXADT2
23 A2
EXADT1
24 A1
A16 48 EXADR16
XBYTE 47
VSS 46
DQ15/A-1 45 FDT15
DQ7 44 FDT7
DQ14 43 FDT14
DQ6 42 FDT6
DQ13 41 FDT13
DQ5 40 FDT5
DQ12 39 FDT12
DQ4 38 FDT4
VDD 37
DQ11 36 FDT11
DQ3 35 FDT3
DQ10 34 FDT10
DQ2 33 FDT2
DQ9 32 FDT9
DQ1 31 FDT1
DQ8 30 FDT8
DQ0 29 FDT0
XOE 28
VSS 27
XCE 26
A0 25 EXADT0
C8651 0.1
C8652 0.1
IC8611
C3EBGC000055
EEPROM IC
(NOT SUPPLIED)
IC8611
1 A0
2 A1
3 A2
4 GND
VCC 8
WP 7
SCL 6
SDA 5
RA8611 (4.7K x 2)
C8611 0.1
CP8612
SCL
R8611 100
CP8611
SDA
I/O STBDAC
CP8021
STBDAC
CP8022
RSTCNT
I/O AMUT
CP8023
AMUT
R8021 10K
I/O SBT3
CP8024
SBT3
I/O SBO3
CP8025
SBO3
CP8027
WIDE_L
CP8028
RGBH
CP8029
CLKSEL
CP8030
YC_H
RA8021 (10K x 2)
I/O OP_CPU-CLK
CP8031
CPU-CLK
I/O OP_CPU-STAT
CP8032
CPU-STAT
R8022 10K
I/O OP_CPU-CMD
CP8033
CPU-CMD
I/O TRSDRV
CP8242
R8241 22K
CP8241
DRV0
C8241 0.1
I/O SPDRV
CP8244
R8242 7.5K
CP8243
DRV1
C8242 0.1
CP8035
M+9V/12VCTL
I/O HFMON
HFMON
R8023 47K
I/O TRV-INNER-SW
TRV-I-SW
I/O MUTE3
MUTE3
CP8036
FGENB
I/O RAM_CD
RAM_CD
I/O MUTE12
MUTE12
I/O FG
FG
I/O PNRST
PNRST
C8031 0.1

A DVD MODULE (DV2) CIRCUIT

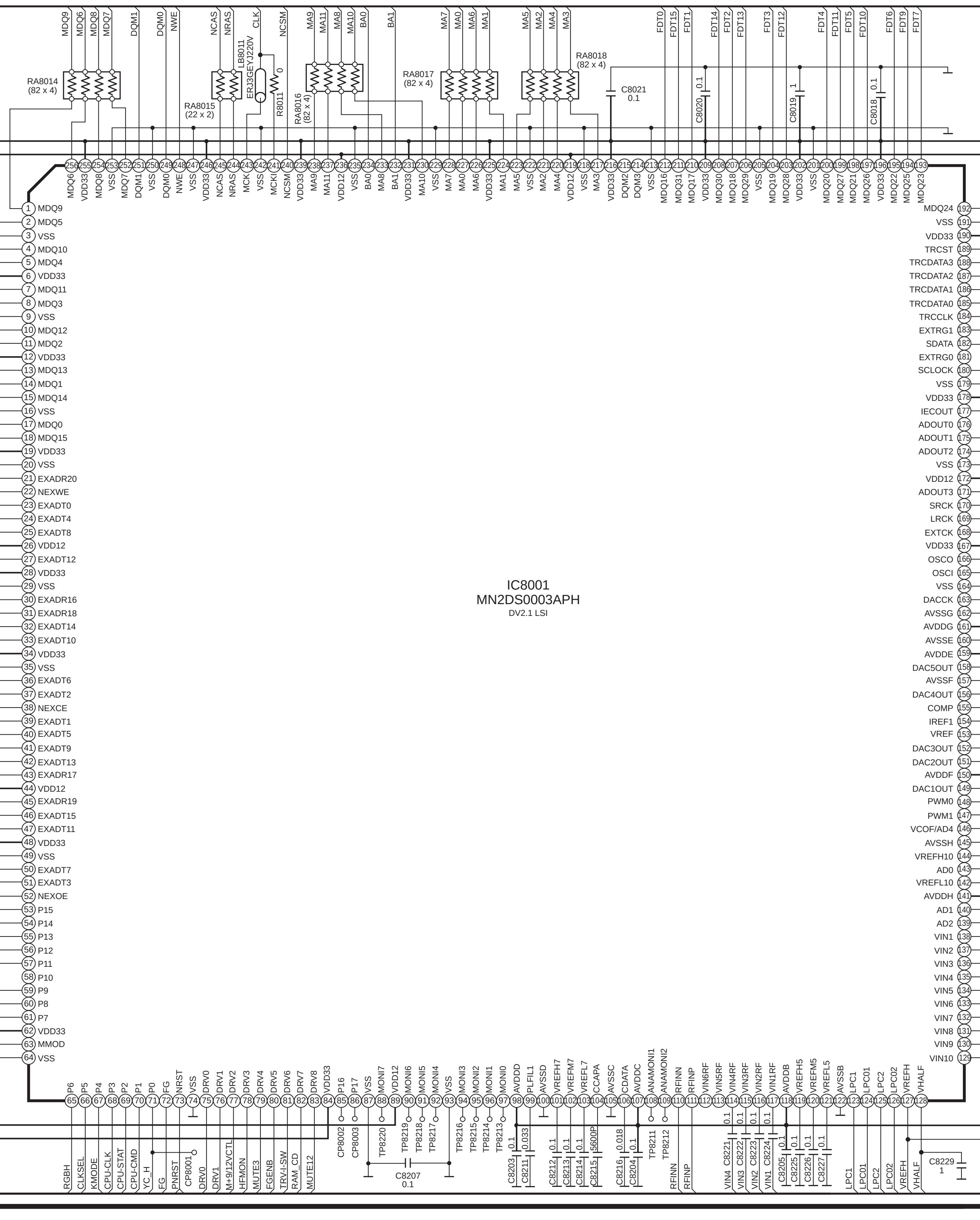
: +B SIGNAL LINE


IC8051
C3ABPG000067
64MB SDRAM IC
1 VDD
2 DQ0
3 VDDQ
4 DQ1
5 DQ2
6 VSSQ
7 DQ3
8 DQ4
9 VDDQ
10 DQ5
11 DQ6
12 VSSQ
13 DQ7
14 VDD
15 LDQM
16 /WE
17 /CAS
18 /RAS
19 /CS
20 BA0
21 BA1
22 A10/AP
23 A0
24 A1
25 A2
26 A3
27 VDD
28 VSS
29 A4
30 A5
31 A6
32 A7
33 A8
34 A9
35 A11
36 NC
37 CKE
38 CLK
39 UDQM
40 NC
41 VSS
42 DQ8
43 VDDQ
44 DQ9
45 DQ10
46 VSSQ
47 DQ11
48 DQ12
49 VDDQ
50 DQ13
51 DQ14
52 VSSQ
53 DQ15
54 VSS
MDQ0
MDQ1
MDQ2
MDQ3
MDQ4
MDQ5
MDQ6
MDQ7
DQM0
NWE
NCAS
NRAS
NCSM
BA0
BA1
MA10
MA0
MA1
MA2
MA3
MDQ15
MDQ14
MDQ13
MDQ12
MDQ11
MDQ10
MDQ9
MDQ8
DQM1
CLK
MA11
MA9
MA8
MA7
MA6
MA5
MA4
C8051 1
C8052 0.1
C8053 220P
C8054 1
C8055 1
C8056 0.1
C8057 2200P
C8028 1
C8027 0.1
C8026 1
C8024 2200P
C8023 1
C8025 0.1
C8022 0.1
RA8013 (82 x 4)
MDQ5
MDQ10
MDQ4
MDQ11
C8003 2200P
RA8012 (82 x 4)
MDQ3
MDQ12
MDQ2
MDQ13
C8004 0.1
RA8011 (82 x 4)
MDQ1
MDQ14
MDQ0
MDQ15
C8005 0.1
EXADR20
NEXWE
EXADT0
EXADT4
EXADT8
C8006 0.1
EXADT12
C8007 0.1
EXADR16
EXADR18
EXADT14
EXADT10
C8008 0.1
EXADT6
EXADT2
EXADT1
EXADT5
EXADT9
EXADT13
EXADR17
C8009 0.1
EXADR19
EXADT15
EXADT11
C8010 0.1
EXADT7
EXADT3
STBDAC
RSTCNT
AMUT
SBT3
SBO3
SCL
SDA
WIDE_L
C8011 1
C8012 0.1
C8013 0.1
C8605 0.1
R8605 100K
R8606 10K
Q8605
2SD1819A0L
SWITCH
Q8606
2SD1819A0L
SWITCH
C8601 0.1
R8601 1K
3 GND
2 VDD
1 OUT
4 NC
5 Cd
IC8605
C0EBA0000031
RESET IC
C8606 0.22
IC8601
C0EBE0000384
VOLTAGE DETECTING IC
3 VDD
2 RESET
1 GND
PNRST

SCHEMATIC DIAGRAM - 7

A DVD MODULE (DV2) CIRCUIT

: +B SIGNAL LINE

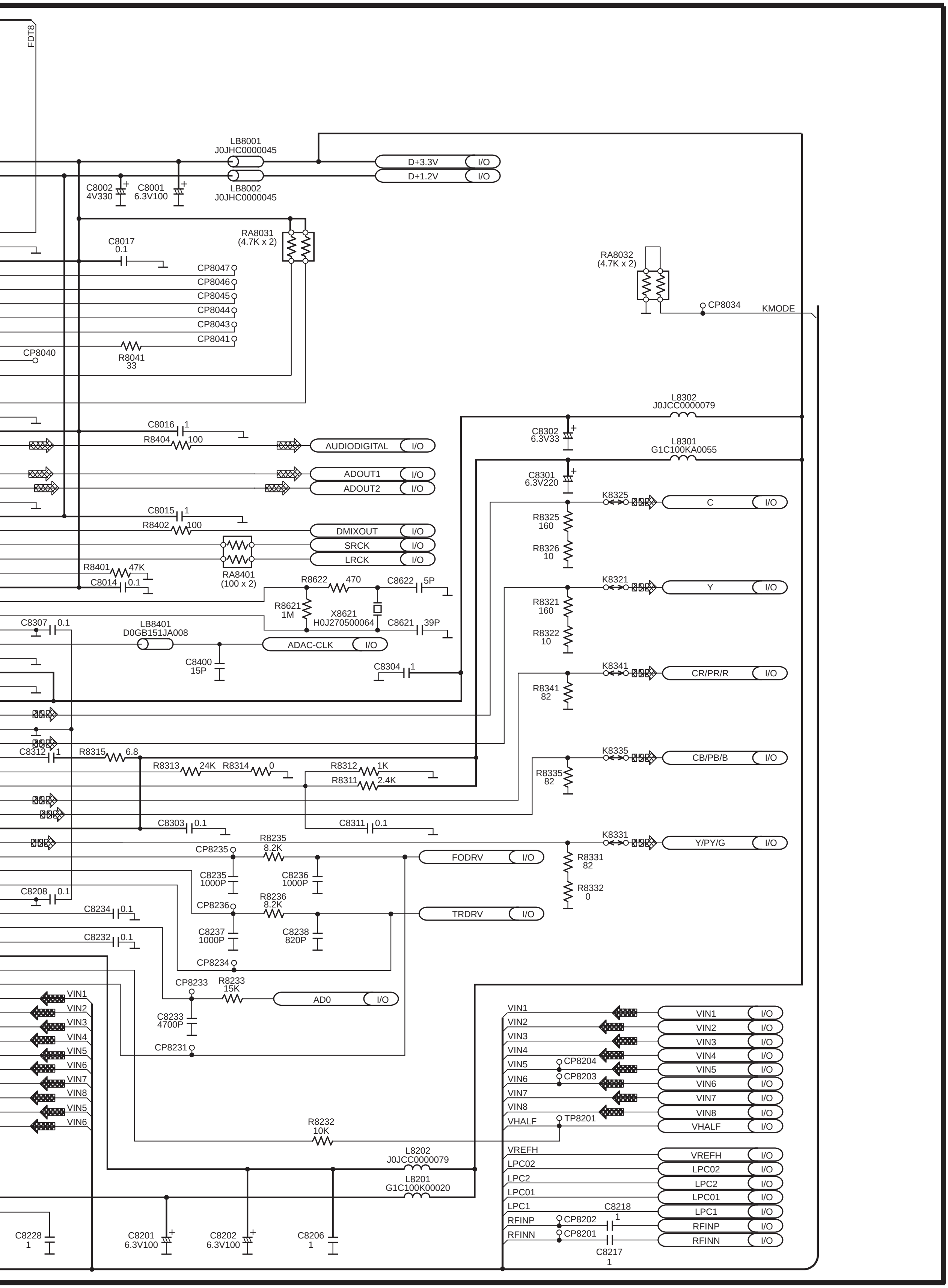


MDQ9
MDQ6
MDQ8
MDQ7
DQM1
DQM0
NWE
NCAS
NRAS
CLK
NCSM
MA9
MA11
MA8
MA10
BA0
BA1
MA7
MA0
MA6
MA1
MA5
MA2
MA4
MA3
FDT0
FDT15
FDT1
FDT14
FDT2
FDT13
FDT3
FDT12
FDT4
FDT11
FDT5
FDT10
FDT6
FDT9
FDT7
RA8014 (82 x 4)
RA8015 (22 x 2)
LB8011 ERJ3GEYJ220V
R8011 0
RA8016 (82 x 4)
RA8017 (82 x 4)
RA8018 (82 x 4)
C8021 0.1
C8020 0.1
C8019 1
C8018 0.1
256 MDQ6
255 VDD33
254 MDQ8
253 VSS
252 MDQ7
251 DQM1
250 VSS
249 DQM0
248 NWE
247 VSS
246 VDD33
245 NCAS
244 NRAS
243 MCK
242 VSS
241 MCKI
240 NCSM
239 VDD33
238 MA9
237 MA11
236 VDD12
235 VSS
234 BA0
233 MA8
232 BA1
231 VDD33
230 MA10
229 VSS
228 MA7
227 MA0
226 MA6
225 VDD33
224 MA1
223 MA5
222 VSS
221 MA2
220 MA4
219 VDD12
218 VSS
217 MA3
216 VDD33
215 DQM2
214 DQM3
213 VSS
212 MDQ16
211 MDQ31
210 MDQ17
209 VDD33
208 MDQ30
207 MDQ18
206 MDQ29
205 VSS
204 MDQ19
203 MDQ28
202 VDD33
201 VSS
200 MDQ20
199 MDQ27
198 MDQ21
197 MDQ26
196 VDD33
195 MDQ22
194 MDQ25
193 MDQ23
1 MDQ9
2 MDQ5
3 VSS
4 MDQ10
5 MDQ4
6 VDD33
7 MDQ11
8 MDQ3
9 VSS
10 MDQ12
11 MDQ2
12 VDD33
13 MDQ13
14 MDQ1
15 MDQ14
16 VSS
17 MDQ0
18 MDQ15
19 VDD33
20 VSS
21 EXADR20
22 NEXWE
23 EXADT0
24 EXADT4
25 EXADT8
26 VDD12
27 EXADT12
28 VDD33
29 VSS
30 EXADR16
31 EXADR18
32 EXADT14
33 EXADT10
34 VDD33
35 VSS
36 EXADT6
37 EXADT2
38 NEXCE
39 EXADT1
40 EXADT5
41 EXADT9
42 EXADT13
43 EXADR17
44 VDD12
45 EXADR19
46 EXADT15
47 EXADT11
48 VDD33
49 VSS
50 EXADT7
51 EXADT3
52 NEXOE
53 P15
54 P14
55 P13
56 P12
57 P11
58 P10
59 P9
60 P8
61 P7
62 VDD33
63 MMOD
64 VSS
MDQ24 192
VSS 191
VDD33 190
TRCST 189
TRCDATA3 188
TRCDATA2 187
TRCDATA1 186
TRCDATA0 185
TRCCLK 184
EXTRG1 183
SDATA 182
EXTRG0 181
SCLOCK 180
VSS 179
VDD33 178
IECOUT 177
ADOUT0 176
ADOUT1 175
ADOUT2 174
VSS 173
VDD12 172
ADOUT3 171
SRCK 170
LRCK 169
EXTCK 168
VDD33 167
OSCO 166
OSCI 165
VSS 164
DACCK 163
AVSSG 162
AVDDG 161
AVSSE 160
AVDDE 159
DAC5OUT 158
AVSSF 157
DAC4OUT 156
COMP 155
IREF1 154
VREF 153
DAC3OUT 152
DAC2OUT 151
AVDDF 150
DAC1OUT 149
PWM0 148
PWM1 147
VCOF/AD4 146
AVSSH 145
VREFH10 144
AD0 143
VREFL10 142
AVDDH 141
AD1 140
AD2 139
VIN1 138
VIN2 137
VIN3 136
VIN4 135
VIN5 134
VIN6 133
VIN7 132
VIN8 131
VIN9 130
VIN10 129
IC8001
MN2DS0003APH
DV2.1 LSI
65 P6
66 P5
67 P4
68 P3
69 P2
70 P1
71 P0
72 FG
73 NRST
74 VSS
75 DRV0
76 DRV1
77 DRV2
78 DRV3
79 DRV4
80 DRV5
81 DRV6
82 DRV7
83 DRV8
84 VDD33
85 P16
86 P17
87 VSS
88 MONI7
89 VDD12
90 MONI6
91 MONI5
92 MONI4
93 VSS
94 MONI3
95 MONI2
96 MONI1
97 MONI0
98 AVDDD
99 PLFIL1
100 AVSSD
101 VREFH7
102 VREFM7
103 VREFL7
104 CCAPA
105 AVSSC
106 CDATA
107 AVDDC
108 ANAMONI1
109 ANAMONI2
110 RFINN
111 RFINP
112 VIN6RF
113 VIN5RF
114 VIN4RF
115 VIN3RF
116 VIN2RF
117 VIN1RF
118 AVDDB
119 VREFH5
120 VREFM5
121 VREFL5
122 AVSSB
123 LPC1
124 LPC01
125 LPC2
126 LPC02
127 VREFH
128 VHALF
RGBH
CLKSEL
KMODE
CPU-CLK
CPU-STAT
CPU-CMD
YC_H
FG
PNRST
CP8001
DRV0
DRV1
M+9/12VCTL
HFMON
MUTE3
FGENB
TRV-I-SW
RAM_CD
MUTE12
CP8002
CP8003
TP8220
TP8219
TP8218
TP8217
C8207 0.1
TP8216
TP8215
TP8214
TP8213
C8203 0.1
C8211 0.033
C8212 0.1
C8213 0.1
C8214 0.1
C8215 5600P
C8216 0.018
C8204 0.1
TP8211
TP8212
RFINN
RFINP
VIN4 C8221 0.1
VIN3 C8222 0.1
VIN2 C8223 0.1
VIN1 C8224 0.1
C8205 0.1
C8225 0.1
C8226 0.1
C8227 0.1
LPC1
LPC01
LPC2
LPC02
VREFH
VHALF
C8229 1

SCHEMATIC DIAGRAM - 8

A DVD MODULE (DV2) CIRCUIT

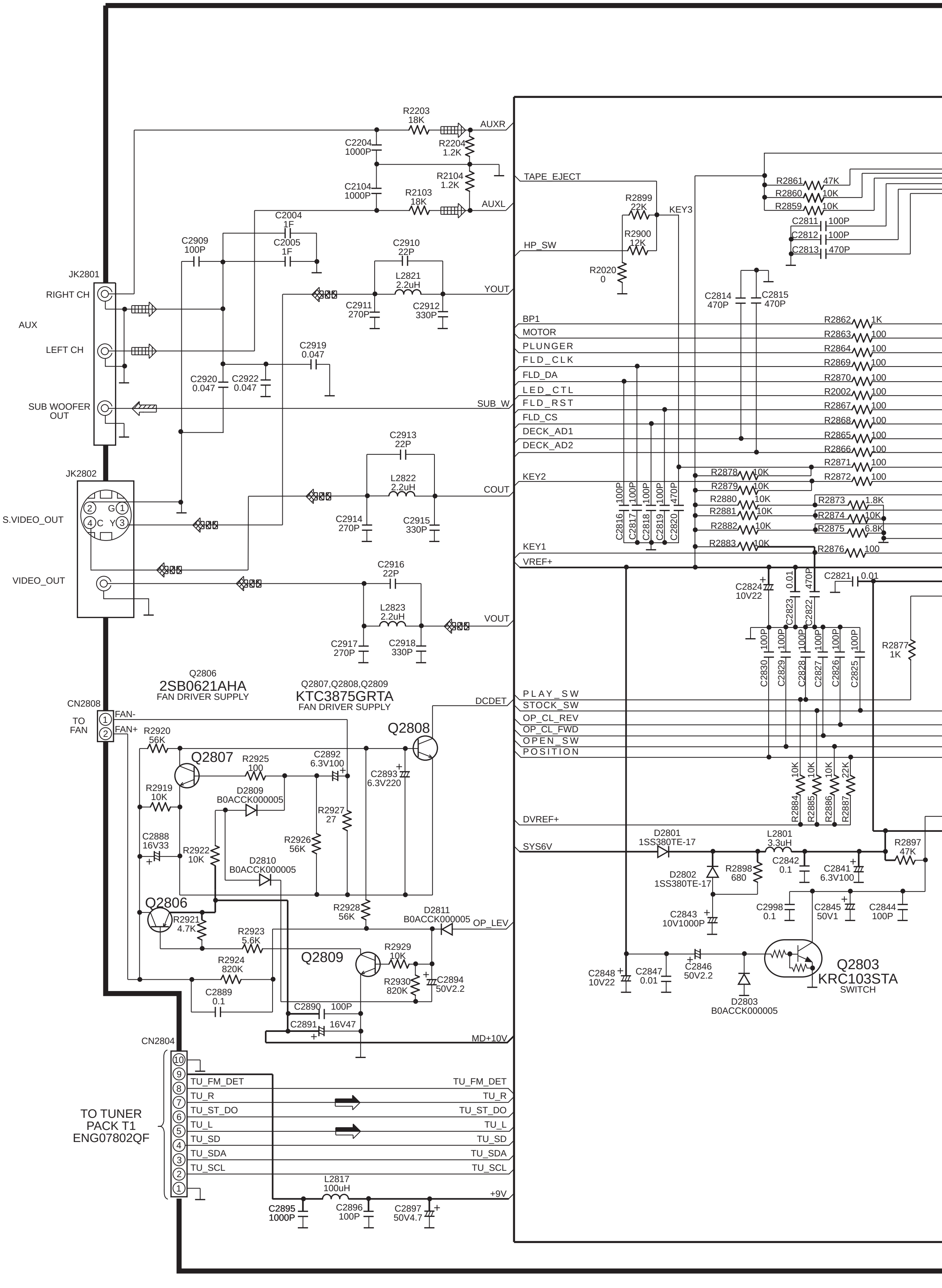
▨ : CD-DA SIGNAL LINE
— : +B SIGNAL LINE
▨ : DVD VIDEO SIGNAL LINE
▨ : DVD AUDIO SIGNAL LINE


FDT8
LB8001
J0JHC0000045
LB8002
J0JHC0000045
D+3.3V
I/O
D+1.2V
I/O
C8002
4V330
C8001
6.3V100
RA8031
(4.7K x 2)
C8017
0.1
CP8047
CP8046
CP8045
CP8044
CP8043
CP8041
CP8040
R8041
33
RA8032
(4.7K x 2)
CP8034
KMODE
L8302
J0JCC0000079
C8302
6.3V33
L8301
G1C100KA0055
C8301
6.3V220
C8016
1
R8404
100
AUDIODIGITAL
ADOUT1
ADOUT2
C8015
1
R8402
100
DMIXOUT
SRCK
LRCK
RA8401
(100 x 2)
R8401
47K
C8014
0.1
R8622
470
C8622
5P
R8621
1M
X8621
H0J270500064
C8621
39P
C8307
0.1
LB8401
D0GB151JA008
ADAC-CLK
C8400
15P
C8304
1
K8325
C
R8325
160
R8326
10
K8321
Y
R8321
160
R8322
10
K8341
CR/PR/R
R8341
82
K8335
CB/PB/B
R8335
82
K8331
Y/PY/G
R8331
82
R8332
0
C8312
1
R8315
6.8
R8313
24K
R8314
0
R8312
1K
R8311
2.4K
C8303
0.1
C8311
0.1
R8235
8.2K
CP8235
FODRV
C8235
1000P
C8236
1000P
C8208
0.1
C8234
0.1
CP8236
R8236
8.2K
TRDRV
C8237
1000P
C8238
820P
C8232
0.1
CP8234
CP8233
R8233
15K
AD0
C8233
4700P
CP8231
VIN1
VIN2
VIN3
VIN4
VIN5
VIN6
VIN7
VIN8
VIN5
VIN6
R8232
10K
L8202
J0JCC0000079
L8201
G1C100K00020
C8228
1
C8201
6.3V100
C8202
6.3V100
C8206
1
VIN1
VIN2
VIN3
VIN4
VIN5
CP8204
VIN6
CP8203
VIN7
VIN8
VHALF
TP8201
VREFH
LPC02
LPC2
LPC01
LPC1
C8218
1
RFINP
CP8202
RFINN
CP8201
C8217
1
VIN1
VIN2
VIN3
VIN4
VIN5
VIN6
VIN7
VIN8
VHALF
VREFH
LPC02
LPC2
LPC01
LPC1
RFINP
RFINN
I/O

SCHEMATIC DIAGRAM-9

B MAIN CIRCUIT

: DVD (VIDEO) SIGNAL LINE
: AUX SIGNAL LINE
: FM/AM SIGNAL LINE
: MAIN SIGNAL LINE
: +B SIGNAL LINE



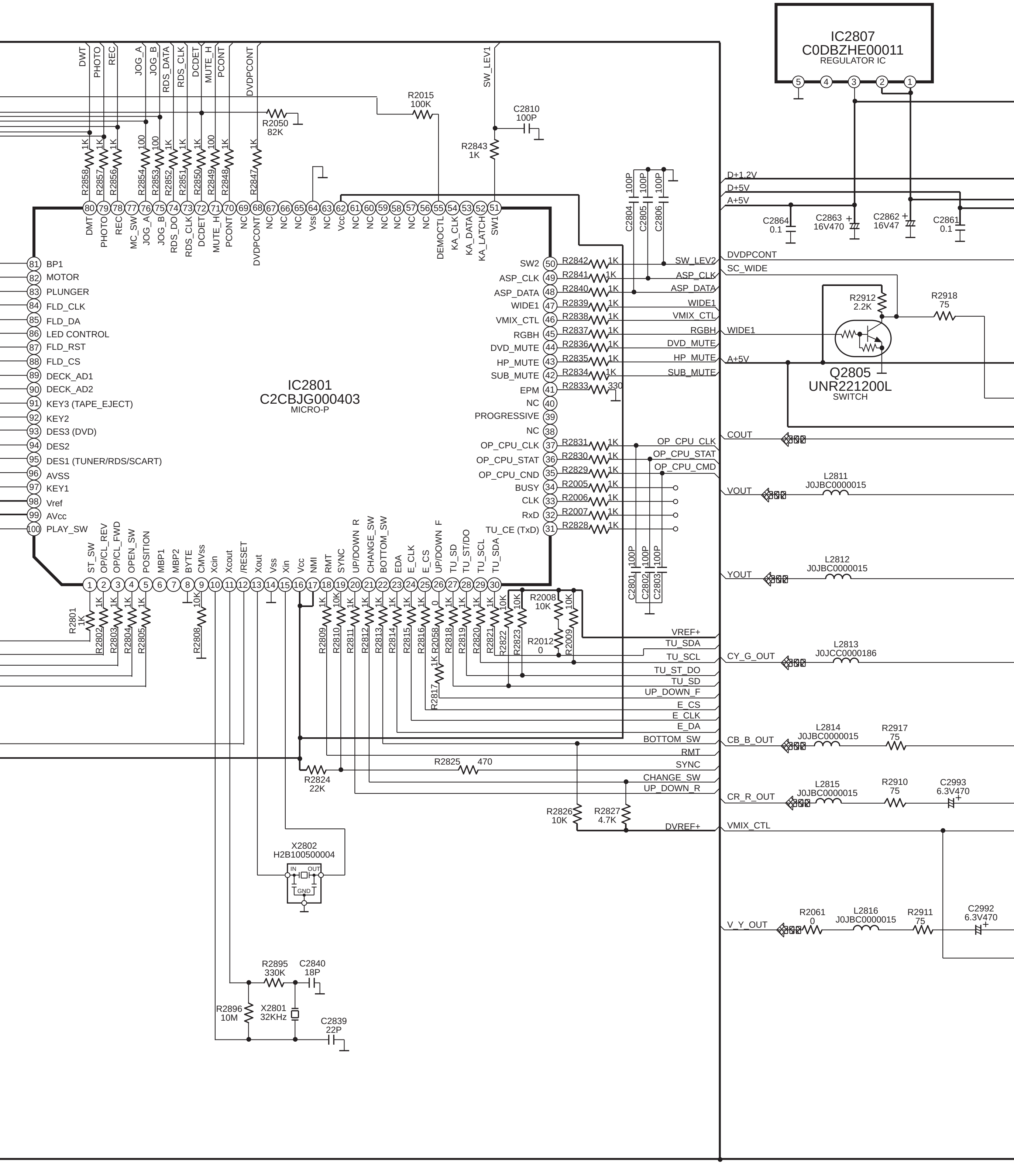
R2203
18K
AUXR
C2204
1000P
R2204
1.2K
C2104
1000P
R2104
1.2K
R2103
18K
AUXL
C2004
1F
C2005
1F
C2909
100P
C2910
22P
L2821
2.2uH
C2911
270P
C2912
330P
YOUT
JK2801
RIGHT CH
AUX
LEFT CH
C2919
0.047
C2920
0.047
C2922
0.047
SUB WOOFER
OUT
SUB_W
JK2802
S.VIDEO_OUT
G
C
Y
C2913
22P
L2822
2.2uH
COUT
C2914
270P
C2915
330P
VIDEO_OUT
C2916
22P
L2823
2.2uH
VOUT
C2917
270P
C2918
330P
Q2806
2SB0621AHA
FAN DRIVER SUPPLY
Q2807,Q2808,Q2809
KTC3875GRTA
FAN DRIVER SUPPLY
CN2808
TO
FAN
FAN-
FAN+
DCDET
R2920
56K
Q2807
R2925
100
C2892
6.3V100
Q2808
C2893
6.3V220
R2919
10K
D2809
B0ACCK000005
R2927
27
C2888
16V33
R2922
10K
R2926
56K
D2810
B0ACCK000005
Q2806
R2921
4.7K
R2928
56K
D2811
B0ACCK000005
OP_LEV
R2923
5.6K
Q2809
R2929
10K
R2924
820K
R2930
820K
C2894
50V2.2
C2889
0.1
C2890
100P
C2891
16V47
MD+10V
CN2804
TO TUNER
PACK T1
ENG07802QF
TU_FM_DET
TU_R
TU_ST_DO
TU_L
TU_SD
TU_SDA
TU_SCL
L2817
100uH
+9V
C2895
1000P
C2896
100P
C2897
50V4.7
TAPE_EJECT
R2899
22K
KEY3
HP_SW
R2900
12K
R2020
0
R2861
47K
R2860
10K
R2859
10K
C2811
100P
C2812
100P
C2813
470P
C2814
470P
C2815
470P
BP1
MOTOR
PLUNGER
FLD_CLK
FLD_DA
LED_CTL
FLD_RST
FLD_CS
DECK_AD1
DECK_AD2
KEY2
KEY1
VREF+
R2862
1K
R2863
100
R2864
100
R2869
100
R2870
100
R2002
100
R2867
100
R2868
100
R2865
100
R2866
100
R2871
100
R2872
100
R2878
10K
R2879
10K
R2880
10K
R2881
10K
R2882
10K
R2883
10K
R2873
1.8K
R2874
10K
R2875
6.8K
R2876
100
C2816
100P
C2817
100P
C2818
100P
C2819
100P
C2820
470P
C2824
10V22
C2823
0.01
C2822
470P
C2821
0.01
C2830
100P
C2829
100P
C2828
100P
C2827
100P
C2826
100P
C2825
100P
R2877
1K
PLAY_SW
STOCK_SW
OP_CL_REV
OP_CL_FWD
OPEN_SW
POSITION
R2884
10K
R2885
10K
R2886
10K
R2887
22K
DVREF+
SYS6V
D2801
1SS380TE-17
L2801
3.3uH
R2897
47K
D2802
1SS380TE-17
R2898
680
C2842
0.1
C2841
6.3V100
C2843
10V1000P
C2998
0.1
C2845
50V1
C2844
100P
C2848
10V22
C2847
0.01
C2846
50V2.2
D2803
B0ACCK000005
Q2803
KRC103STA
SWITCH

SCHEMATIC DIAGRAM-10

B MAIN CIRCUIT

: +B SIGNAL LINE

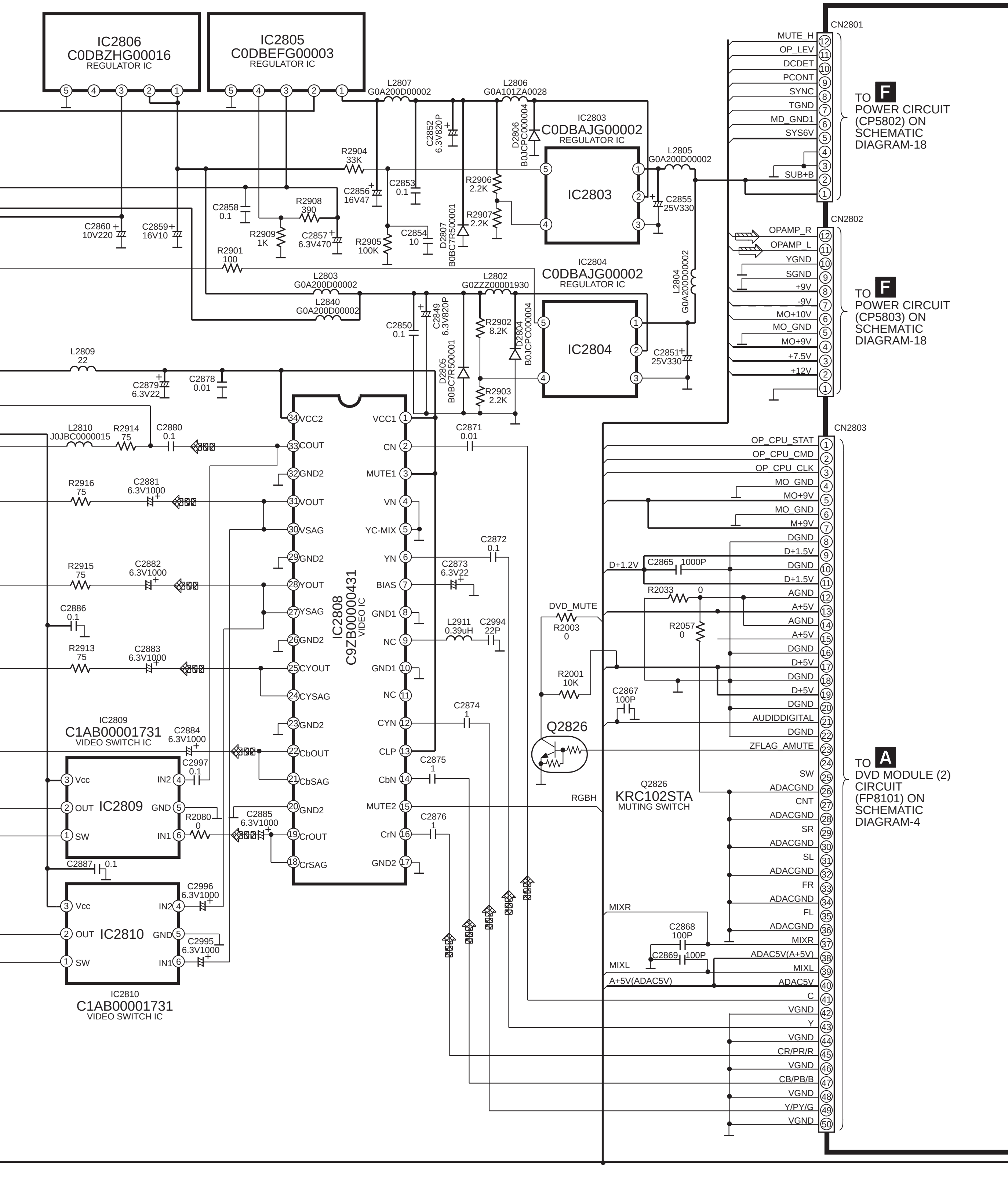
: DVD (VIDEO) SIGNAL LINE


IC2807
C0DBZHE00011
REGULATOR IC
IC2801
C2CBJG000403
MICRO-P
Q2805
UNR221200L
SWITCH
X2802
H2B100500004
IN
OUT
GND
X2801
32KHz
DWT
PHOTO
REC
JOG_A
JOG_B
RDS_DATA
RDS_CLK
DCDET
MUTE_H
PCONT
DVDPCONT
SW_LEV1
R2015
100K
C2810
100P
R2843
1K
R2050
82K
R2858
R2857
R2856
R2854
R2853
R2852
R2851
R2850
R2849
R2848
R2847
80 DMT
79 PHOTO
78 REC
77 MC_SW
76 JOG_A
75 JOG_B
74 RDS_DO
73 RDS_CLK
72 DCDET
71 MUTE_H
70 PCONT
69 NC
68 DVDPCONT
67 NC
66 NC
65 NC
64 Vss
63 NC
62 Vcc
61 NC
60 NC
59 NC
58 NC
57 NC
56 NC
55 DEMOCTL
54 KA_CLK
53 KA_DATA
52 KA_LATCH
51 SW1
81 BP1
82 MOTOR
83 PLUNGER
84 FLD_CLK
85 FLD_DA
86 LED CONTROL
87 FLD_RST
88 FLD_CS
89 DECK_AD1
90 DECK_AD2
91 KEY3 (TAPE_EJECT)
92 KEY2
93 DES3 (DVD)
94 DES2
95 DES1 (TUNER/RDS/SCART)
96 AVSS
97 KEY1
98 Vref
99 AVcc
100 PLAY_SW
SW2 50
ASP_CLK 49
ASP_DATA 48
WIDE1 47
VMIX_CTL 46
RGBH 45
DVD_MUTE 44
HP_MUTE 43
SUB_MUTE 42
EPM 41
NC 40
PROGRESSIVE 39
NC 38
OP_CPU_CLK 37
OP_CPU_STAT 36
OP_CPU_CND 35
BUSY 34
CLK 33
RxD 32
TU_CE (TxD) 31
1 ST_SW
2 OP/CL_REV
3 OP/CL_FWD
4 OPEN_SW
5 POSITION
6 MBP1
7 MBP2
8 BYTE
9 CMVss
10 Xcin
11 Xcout
12 /RESET
13 Xout
14 Vss
15 Xin
16 Vcc
17 NMI
18 RMT
19 SYNC
20 UP/DOWN R
21 CHANGE_SW
22 BOTTOM_SW
23 EDA
24 E_CLK
25 E_CS
26 UP/DOWN F
27 TU_SD
28 TU_ST/DO
29 TU_SCL
30 TU_SDA
R2842 1K
R2841 1K
R2840 1K
R2839 1K
R2838 1K
R2837 1K
R2836 1K
R2835 1K
R2834 1K
R2833 330
R2831 1K
R2830 1K
R2829 1K
R2005 1K
R2006 1K
R2007 1K
R2828 1K
C2804 100P
C2805 100P
C2806 100P
C2801 100P
C2802 100P
C2803 100P
D+1.2V
D+5V
A+5V
C2864 0.1
C2863 16V470
C2862 16V47
C2861 0.1
SW_LEV2
ASP_CLK
ASP_DATA
WIDE1
VMIX_CTL
RGBH
DVD_MUTE
HP_MUTE
SUB_MUTE
OP_CPU_CLK
OP_CPU_STAT
OP_CPU_CMD
DVDPCONT
SC_WIDE
R2912 2.2K
R2918 75
WIDE1
A+5V
COUT
VOUT
L2811 J0JBC0000015
YOUT
L2812 J0JBC0000015
CY_G_OUT
L2813 J0JCC0000186
CB_B_OUT
L2814 J0JBC0000015
R2917 75
CR_R_OUT
L2815 J0JBC0000015
R2910 75
C2993 6.3V470
VMIX_CTL
V_Y_OUT
R2061 0
L2816 J0JBC0000015
R2911 75
C2992 6.3V470
R2801 1K
R2802 1K
R2803 1K
R2804 1K
R2805 1K
R2808 10K
R2809 1K
R2810 10K
R2811 1K
R2812 1K
R2813 1K
R2814 1K
R2815 1K
R2816 1K
R2058 0
R2817 1K
R2818 1K
R2819 1K
R2820 1K
R2821 1K
R2822 10K
R2823 10K
R2008 10K
R2012 0
R2009 10K
VREF+
TU_SDA
TU_SCL
TU_ST_DO
TU_SD
UP_DOWN_F
E_CS
E_CLK
E_DA
BOTTOM_SW
RMT
SYNC
CHANGE_SW
UP_DOWN_R
DVREF+
R2825 470
R2824 22K
R2826 10K
R2827 4.7K
R2895 330K
C2840 18P
R2896 10M
C2839 22P

SCHEMATIC DIAGRAM-11

B MAIN CIRCUIT

- - - : - B SIGNAL LINE
——— : +B SIGNAL LINE
: DVD (VIDEO) SIGNAL LINE
: MAIN SIGNAL LINE

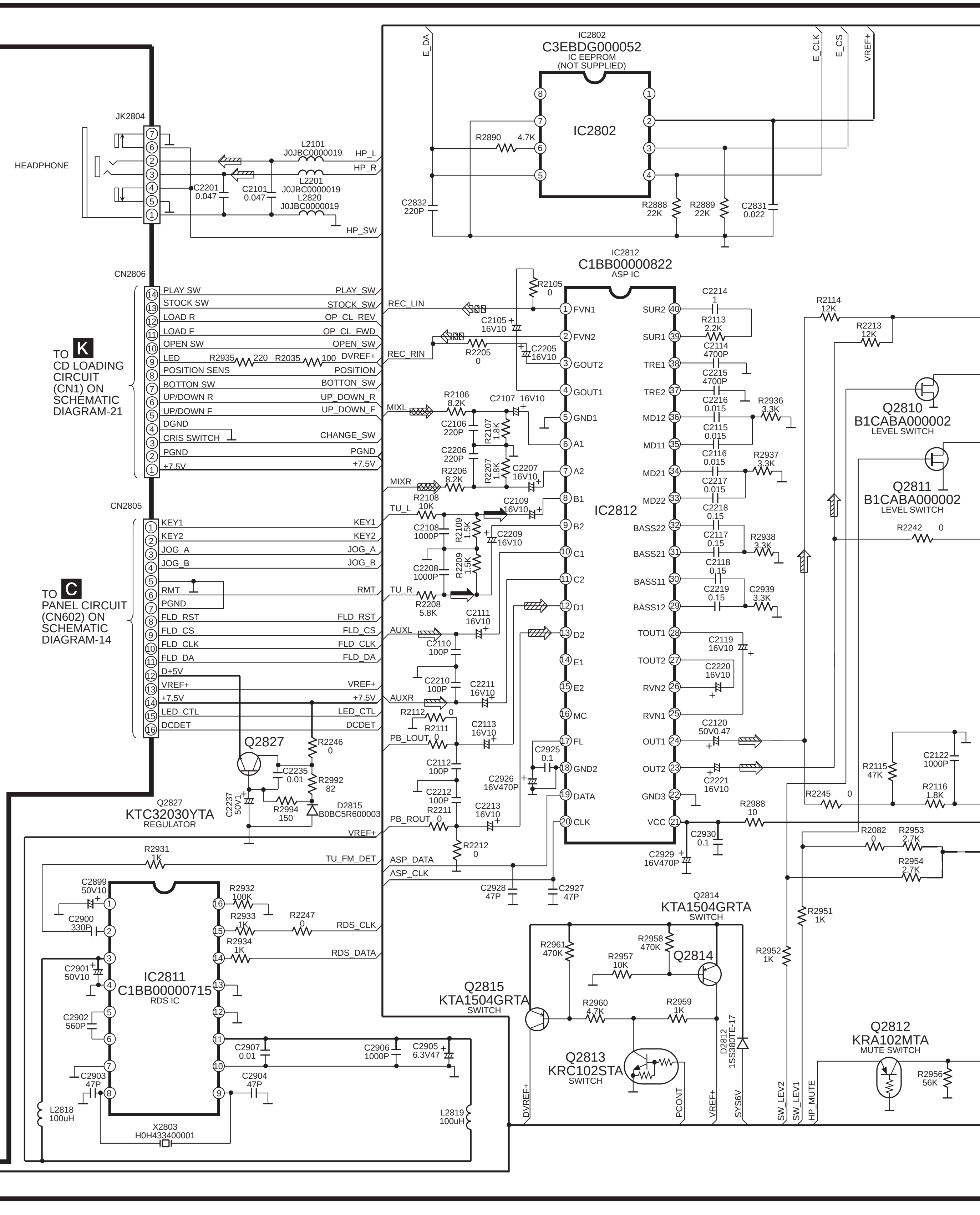


IC2806
C0DBZHG00016
REGULATOR IC
IC2805
C0DBEFG00003
REGULATOR IC
L2807
G0A200D00002
L2806
G0A101ZA0028
C2852
6.3V820P
D2806
B0JCPC000004
IC2803
C0DBAJG00002
REGULATOR IC
R2904
33K
L2805
G0A200D00002
C2856
16V47
C2853
0.1
R2906
2.2K
C2855
25V330
C2858
0.1
R2908
390
R2907
2.2K
C2860
10V220
C2859
16V10
R2909
1K
C2857
6.3V470
R2905
100K
C2854
10
D2807
B0BC7R500001
R2901
100
IC2804
C0DBAJG00002
REGULATOR IC
L2803
G0A200D00002
L2802
G0ZZZ00001930
L2804
G0A200D00002
L2840
G0A200D00002
C2849
6.3V820P
C2850
0.1
R2902
8.2K
D2804
B0JCPC000004
C2851
25V330
L2809
22
C2879
6.3V22
C2878
0.01
D2805
B0BC7R500001
R2903
2.2K
L2810
J0JBC0000015
R2914
75
C2880
0.1
C2871
0.01
R2916
75
C2881
6.3V1000
C2872
0.1
R2915
75
C2882
6.3V1000
C2873
6.3V22
C2886
0.1
L2911
0.39uH
C2994
22P
R2913
75
C2883
6.3V1000
IC2808
C9ZB00000431
VIDEO IC
VCC2
COUT
GND2
VOUT
VSAG
GND2
YOUT
YSAG
GND2
CYOUT
CYSAG
GND2
CbOUT
CbSAG
GND2
CrOUT
CrSAG
VCC1
CN
MUTE1
VN
YC-MIX
YN
BIAS
GND1
NC
GND1
NC
CYN
CLP
CbN
MUTE2
CrN
GND2
C2874
1
C2875
1
C2876
1
IC2809
C1AB00001731
VIDEO SWITCH IC
C2884
6.3V1000
C2997
0.1
Vcc
IN2
OUT
IC2809
GND
SW
IN1
R2080
0
C2885
6.3V1000
C2887
0.1
C2996
6.3V1000
Vcc
IN2
OUT
IC2810
GND
C2995
6.3V1000
SW
IN1
IC2810
C1AB00001731
VIDEO SWITCH IC
DVD_MUTE
R2003
0
R2001
10K
C2867
100P
Q2826
Q2826
KRC102STA
MUTING SWITCH
RGBH
D+1.2V
C2865
1000P
R2033
0
R2057
0
MIXR
C2868
100P
C2869
100P
MIXL
A+5V(ADAC5V)
CN2801
MUTE_H
OP_LEV
DCDET
PCONT
SYNC
TGND
MD_GND1
SYS6V
SUB+B
TO F
POWER CIRCUIT
(CP5802) ON
SCHEMATIC
DIAGRAM-18
CN2802
OPAMP_R
OPAMP_L
YGND
SGND
+9V
-9V
MO+10V
MO_GND
MO+9V
+7.5V
+12V
TO F
POWER CIRCUIT
(CP5803) ON
SCHEMATIC
DIAGRAM-18
CN2803
OP_CPU_STAT
OP_CPU_CMD
OP_CPU_CLK
MO_GND
MO+9V
MO_GND
M+9V
DGND
D+1.5V
DGND
D+1.5V
AGND
A+5V
AGND
A+5V
DGND
D+5V
DGND
D+5V
DGND
AUDIDDIGITAL
DGND
ZFLAG_AMUTE
SW
ADACGND
CNT
ADACGND
SR
ADACGND
SL
ADACGND
FR
ADACGND
FL
ADACGND
MIXR
ADAC5V(A+5V)
MIXL
ADAC5V
C
VGND
Y
VGND
CR/PR/R
VGND
CB/PB/B
VGND
Y/PY/G
VGND
TO A
DVD MODULE (2)
CIRCUIT
(FP8101) ON
SCHEMATIC
DIAGRAM-4

SCHEMATIC DIAGRAM-12

B MAIN CIRCUIT

⇨ : MAIN SIGNAL LINE
— : +B SIGNAL LINE
▨ : TAPE PLAYBACK SIGNAL LINE
▨ : TAPE RECORD SIGNAL LINE
➡ : FM/AM SIGNAL LINE
▥ : AUX SIGNAL LINE



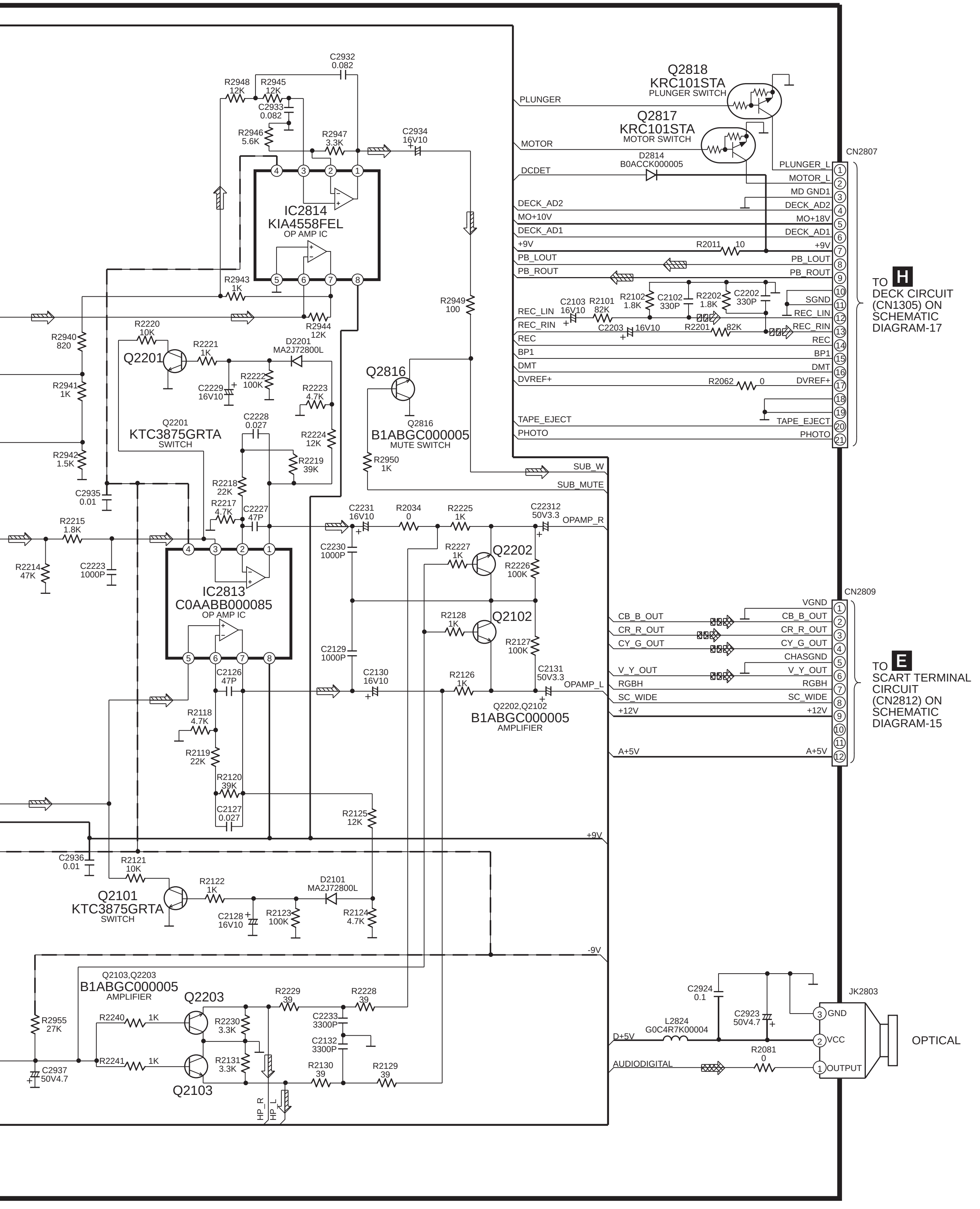
IC2802
C3EBDG000052
IC EEPROM
(NOT SUPPLIED)
E_DA
E_CLK
E_CS
VREF+
R2890 4.7K
C2832 220P
R2888 22K
R2889 22K
C2831 0.022
JK2804
HEADPHONE
L2101 J0JBC0000019
L2201 J0JBC0000019
L2820 J0JBC0000019
C2201 0.047
C2101 0.047
HP_L
HP_R
HP_SW
CN2806
PLAY SW
STOCK SW
LOAD R
LOAD F
OPEN SW
LED
R2935 220
R2035 100
POSITION SENS
BOTTON SW
UP/DOWN R
UP/DOWN F
DGND
CRIS SWITCH
PGND
+7.5V
PLAY_SW
STOCK_SW
OP_CL_REV
OP_CL_FWD
OPEN_SW
DVREF+
POSITION
BOTTON_SW
UP_DOWN_R
UP_DOWN_F
CHANGE_SW
TO K CD LOADING CIRCUIT (CN1) ON SCHEMATIC DIAGRAM-21
CN2805
KEY1
KEY2
JOG_A
JOG_B
RMT
PGND
FLD_RST
FLD_CS
FLD_CLK
FLD_DA
D+5V
VREF+
+7.5V
LED_CTL
DCDET
TO C PANEL CIRCUIT (CN602) ON SCHEMATIC DIAGRAM-14
Q2827
KTC32030YTA
REGULATOR
R2246 0
C2235 0.01
R2992 82
C2237 50V1
R2994 150
D2815 B0BC5R600003
IC2812
C1BB00000822
ASP IC
R2105 0
REC_LIN
REC_RIN
C2105 16V10
C2205 16V10
R2205 0
MIXL
MIXR
R2106 8.2K
C2106 220P
R2107 1.8K
C2107 16V10
C2206 220P
R2206 8.2K
R2207 1.8K
C2207 16V10
TU_L
R2108 10K
C2108 1000P
R2109 1.5K
C2109 16V10
C2209 16V10
C2208 1000P
R2209 1.5K
TU_R
R2208 5.8K
C2111 16V10
AUXL
C2110 100P
C2210 100P
C2211 16V10
AUXR
R2112 0
R2111 0
PB_LOUT
C2113 16V10
C2925 0.1
C2112 1000P
C2926 16V470P
C2212 100P
R2211 0
PB_ROUT
C2213 16V10
R2212 0
VREF+
ASP_DATA
ASP_CLK
C2928 47P
C2927 47P
FVN1
FVN2
GOUT2
GOUT1
GND1
A1
A2
B1
B2
C1
C2
D1
D2
E1
E2
MC
FL
GND2
DATA
CLK
SUR2
SUR1
TRE1
TRE2
MD12
MD11
MD21
MD22
BASS22
BASS21
BASS11
BASS12
TOUT1
TOUT2
RVN2
RVN1
OUT1
OUT2
GND3
VCC
C2214 1
R2113 2.2K
C2114 4700P
C2215 4700P
C2216 0.015
R2936 3.3K
C2115 0.015
C2116 0.015
R2937 3.3K
C2217 0.015
C2218 0.15
C2117 0.15
R2938 3.3K
C2118 0.15
C2219 0.15
R2939 3.3K
C2119 16V10
C2220 16V10
C2120 50V0.47
C2221 16V10
R2988 10
C2930 0.1
C2929 16V470P
R2114 12K
R2213 12K
Q2810
B1CABA000002
LEVEL SWITCH
Q2811
B1CABA000002
LEVEL SWITCH
R2242 0
R2115 47K
C2122 1000P
R2245 0
R2116 1.8K
R2082 0
R2953 2.7K
R2954 2.7K
R2951 1K
R2952 1K
R2931 1K
TU_FM_DET
C2899 50V10
C2900 330P
R2932 100K
R2933 1K
R2247 0
RDS_CLK
R2934 1K
RDS_DATA
IC2811
C1BB00000715
RDS IC
C2901 50V10
C2902 560P
C2903 47P
C2907 0.01
C2906 1000P
C2905 6.3V47
C2904 47P
L2818 100uH
L2819 100uH
X2803
H0H433400001
Q2814
KTA1504GRTA
SWITCH
R2961 470K
R2958 470K
R2957 10K
Q2815
KTA1504GRTA
SWITCH
R2960 4.7K
R2959 1K
D2812 1SS380TE-17
Q2813
KRC102STA
SWITCH
DVREF+
PCONT
VREF+
SYS6V
SW_LEV2
SW_LEV1
HP_MUTE
Q2812
KRA102MTA
MUTE SWITCH
R2956 56K

SCHEMATIC DIAGRAM-13

B MAIN CIRCUIT

⇨ : MAIN SIGNAL LINE
- - - : +B SIGNAL LINE
—— : +B SIGNAL LINE

▨ : TAPE PLAYBACK SIGNAL LINE
▨ : TAPE RECORD SIGNAL LINE
▨ : DVD (AUDIO) SIGNAL LINE
▨ : DVD (VIDEO) SIGNAL LINE

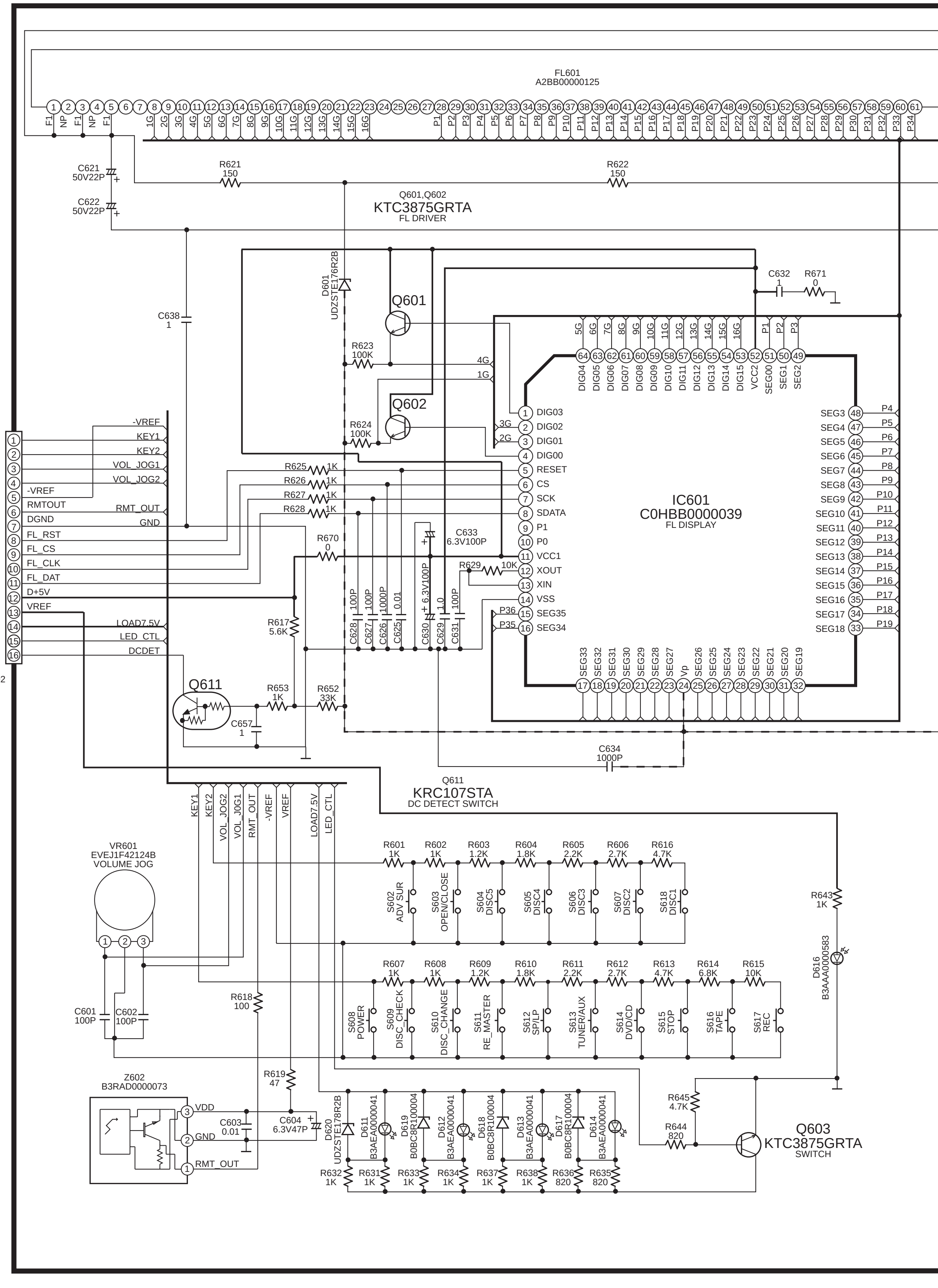

C2932 0.082
R2948 12K
R2945 12K
C2933 0.082
R2946 5.6K
R2947 3.3K
C2934 16V10
IC2814
KIA4558FEL
OP AMP IC
R2943 1K
R2944 12K
R2940 820
R2941 1K
R2942 1.5K
C2935 0.01
R2220 10K
Q2201
R2221 1K
D2201 MA2J72800L
R2222 100K
C2229 16V10
R2223 4.7K
R2224 12K
C2228 0.027
R2219 39K
Q2201
KTC3875GRTA
SWITCH
R2218 22K
R2217 4.7K
C2227 47P
R2215 1.8K
R2214 47K
C2223 1000P
IC2813
C0AABB000085
OP AMP IC
C2126 47P
R2118 4.7K
R2119 22K
R2120 39K
C2127 0.027
C2936 0.01
R2121 10K
Q2101
KTC3875GRTA
SWITCH
R2122 1K
D2101 MA2J72800L
C2128 16V10
R2123 100K
R2124 4.7K
R2125 12K
R2949 100
Q2816
B1ABGC000005
MUTE SWITCH
R2950 1K
C2231 16V10
R2034 0
R2225 1K
C22312 50V3.3
OPAMP_R
C2230 1000P
R2227 1K
Q2202
R2226 100K
R2128 1K
Q2102
R2127 100K
C2129 1000P
C2130 16V10
R2126 1K
C2131 50V3.3
OPAMP_L
Q2202,Q2102
B1ABGC000005
AMPLIFIER
SUB_W
SUB_MUTE
+9V
-9V
Q2103,Q2203
B1ABGC000005
AMPLIFIER
Q2203
R2229 39
R2228 39
R2240 1K
R2230 3.3K
C2233 3300P
C2132 3300P
R2241 1K
R2131 3.3K
R2130 39
R2129 39
Q2103
R2955 27K
C2937 50V4.7
HP_R
HP_L
Q2818
KRC101STA
PLUNGER SWITCH
Q2817
KRC101STA
MOTOR SWITCH
PLUNGER
MOTOR
D2814 B0ACCK000005
DCDET
DECK_AD2
MO+10V
DECK_AD1
+9V
R2011 10
PB_LOUT
PB_ROUT
R2102 1.8K
C2102 330P
R2202 1.8K
C2202 330P
C2103 16V10
R2101 82K
REC_LIN
REC_RIN
C2203 16V10
R2201 82K
REC
BP1
DMT
DVREF+
R2062 0
TAPE_EJECT
PHOTO
CN2807
PLUNGER_L
MOTOR_L
MD GND1
DECK_AD2
MO+18V
DECK_AD1
+9V
PB_LOUT
PB_ROUT
SGND
REC_LIN
REC_RIN
REC
BP1
DMT
DVREF+
TAPE_EJECT
PHOTO
TO H DECK CIRCUIT (CN1305) ON SCHEMATIC DIAGRAM-17
CN2809
CB_B_OUT
CR_R_OUT
CY_G_OUT
V_Y_OUT
RGBH
SC_WIDE
+12V
A+5V
VGND
CB_B_OUT
CR_R_OUT
CY_G_OUT
CHASGND
V_Y_OUT
RGBH
SC_WIDE
+12V
A+5V
TO E SCART TERMINAL CIRCUIT (CN2812) ON SCHEMATIC DIAGRAM-15
C2924 0.1
C2923 50V4.7
L2824 G0C4R7K00004
D+5V
AUDIODIGITAL
R2081 0
JK2803
GND
VCC
OUTPUT
OPTICAL

SCHEMATIC DIAGRAM-14

C PANEL CIRCUIT

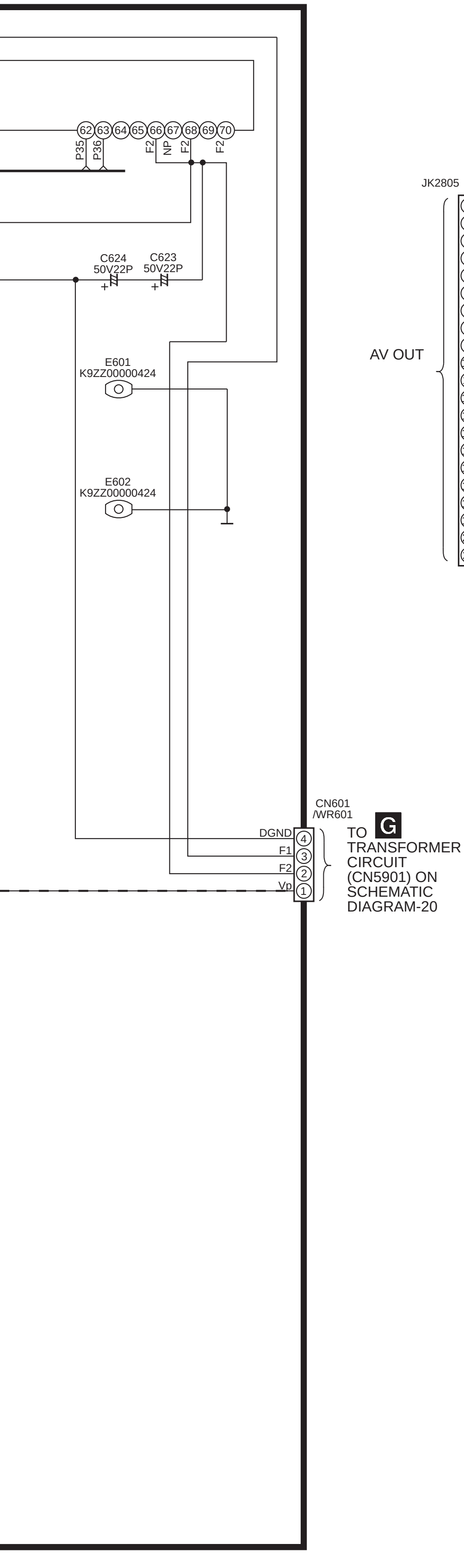
- - - : -B SIGNAL LINE

—— : +B SIGNAL LINE


FL601
A2BB00000125
F1 NP F1 NP F1
1G 2G 3G 4G 5G 6G 7G 8G 9G 10G 11G 12G 13G 14G 15G 16G
P1 P2 P3 P4 P5 P6 P7 P8 P9 P10 P11 P12 P13 P14 P15 P16 P17 P18 P19 P20 P21 P22 P23 P24 P25 P26 P27 P28 P29 P30 P31 P32 P33 P34
C621
50V22P
C622
50V22P
R621
150
R622
150
Q601,Q602
KTC3875GRTA
FL DRIVER
D601
UDZSTE176R2B
Q601
Q602
R623
100K
R624
100K
C638
1
C632
1
R671
0
4G
1G
3G
2G
IC601
C0HBB0000039
FL DISPLAY
DIG03
DIG02
DIG01
DIG00
RESET
CS
SCK
SDATA
P1
P0
VCC1
XOUT
XIN
VSS
SEG35
SEG34
DIG04 DIG05 DIG06 DIG07 DIG08 DIG09 DIG10 DIG11 DIG12 DIG13 DIG14 DIG15 VCC2 SEG00 SEG1 SEG2
SEG3 SEG4 SEG5 SEG6 SEG7 SEG8 SEG9 SEG10 SEG11 SEG12 SEG13 SEG14 SEG15 SEG16 SEG17 SEG18
SEG33 SEG32 SEG31 SEG30 SEG29 SEG28 SEG27 Vp SEG26 SEG25 SEG24 SEG23 SEG22 SEG21 SEG20 SEG19
P36
P35
R625 1K
R626 1K
R627 1K
R628 1K
R670
0
C633
6.3V100P
R629 10K
C628 100P
C627 100P
C626 1000P
C625 0.01
C630 6.3V100P
C629 1.0
C631 100P
R617
5.6K
Q611
R653
1K
R652
33K
C657
1
C634
1000P
Q611
KRC107STA
DC DETECT SWITCH
TO B MAIN CIRCUIT (CN2805) ON SCHEMATIC DIAGRAM-12
CN602
-VREF
RMTOUT
DGND
FL_RST
FL_CS
FL_CLK
FL_DAT
D+5V
VREF
-VREF
KEY1
KEY2
VOL_JOG1
VOL_JOG2
RMT_OUT
GND
LOAD7.5V
LED_CTL
DCDET
KEY1 KEY2 VOL_JOG2 VOL_JOG1 RMT_OUT -VREF VREF LOAD7.5V LED_CTL
VR601
EVEJ1F42124B
VOLUME JOG
C601
100P
C602
100P
R618
100
R619
47
Z602
B3RAD0000073
VDD
GND
RMT_OUT
C603
0.01
C604
6.3V47P
R601 1K
R602 1K
R603 1.2K
R604 1.8K
R605 2.2K
R606 2.7K
R616 4.7K
S602 ADV SUR
S603 OPEN/CLOSE
S604 DISC5
S605 DISC4
S606 DISC3
S607 DISC2
S618 DISC1
R607 1K
R608 1K
R609 1.2K
R610 1.8K
R611 2.2K
R612 2.7K
R613 4.7K
R614 6.8K
R615 10K
S608 POWER
S609 DISC_CHECK
S610 DISC_CHANGE
S611 RE_MASTER
S612 SP/LP
S613 TUNER/AUX
S614 DVD/CD
S615 STOP
S616 TAPE
S617 REC
R643
1K
D616
B3AAA0000583
D620 UDZSTE178R2B
D611 B3AEA0000041
D619 B0BC8R100004
D612 B3AEA0000041
D618 B0BC8R100004
D613 B3AEA0000041
D617 B0BC8R100004
D614 B3AEA0000041
R632 1K
R631 1K
R633 1K
R634 1K
R637 1K
R638 1K
R636 820
R635 820
R645
4.7K
R644
820
Q603
KTC3875GRTA
SWITCH

SCHEMATIC DIAGRAM-15

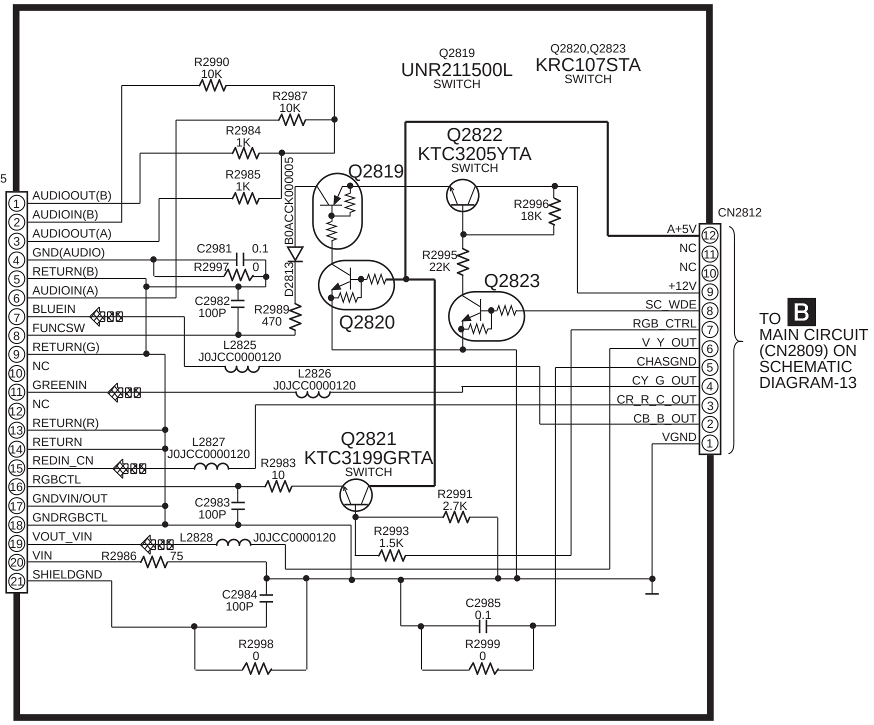
C PANEL CIRCUIT



62 63 64 65 66 67 68 69 70
P35
P36
F2
NP
F2
F2
C624
50V22P
C623
50V22P
E601
K9ZZ00000424
E602
K9ZZ00000424
CN601
/WR601
DGND ④
F1 ③
F2 ②
Vp ①
TO G
TRANSFORMER
CIRCUIT
(CN5901) ON
SCHEMATIC
DIAGRAM-20

E SCART CIRCUIT

- - - : - B SIGNAL LINE
—— : +B SIGNAL LINE
⇨ : DVD (VIDEO) SIGNAL LINE



AV OUT
JK2805
① AUDIOOUT(B)
② AUDIOIN(B)
③ AUDIOOUT(A)
④ GND(AUDIO)
⑤ RETURN(B)
⑥ AUDIOIN(A)
⑦ BLUEIN
⑧ FUNCSW
⑨ RETURN(G)
⑩ NC
⑪ GREENIN
⑫ NC
⑬ RETURN(R)
⑭ RETURN
⑮ REDIN_CN
⑯ RGBCTL
⑰ GNDVIN/OUT
⑱ GNDRGBCTL
⑲ VOUT_VIN
⑳ VIN
㉑ SHIELDGND
R2990
10K
R2987
10K
R2984
1K
R2985
1K
D2813
B0ACCK000005
C2981
0.1
R2997
0
C2982
100P
R2989
470
L2825
J0JCC0000120
L2826
J0JCC0000120
L2827
J0JCC0000120
R2983
10
C2983
100P
L2828
J0JCC0000120
R2986
75
C2984
100P
R2998
0
Q2819
UNR211500L
SWITCH
Q2820,Q2823
KRC107STA
SWITCH
Q2819
Q2820
Q2822
KTC3205YTA
SWITCH
Q2823
R2996
18K
R2995
22K
Q2821
KTC3199GRTA
SWITCH
R2991
2.7K
R2993
1.5K
C2985
0.1
R2999
0
CN2812
A+5V ⑫
NC ⑪
NC ⑩
+12V ⑨
SC_WDE ⑧
RGB_CTRL ⑦
V_Y_OUT ⑥
CHASGND ⑤
CY_G_OUT ④
CR_R_C_OUT ③
CB_B_OUT ②
VGND ①
TO B
MAIN CIRCUIT
(CN2809) ON
SCHEMATIC
DIAGRAM-13

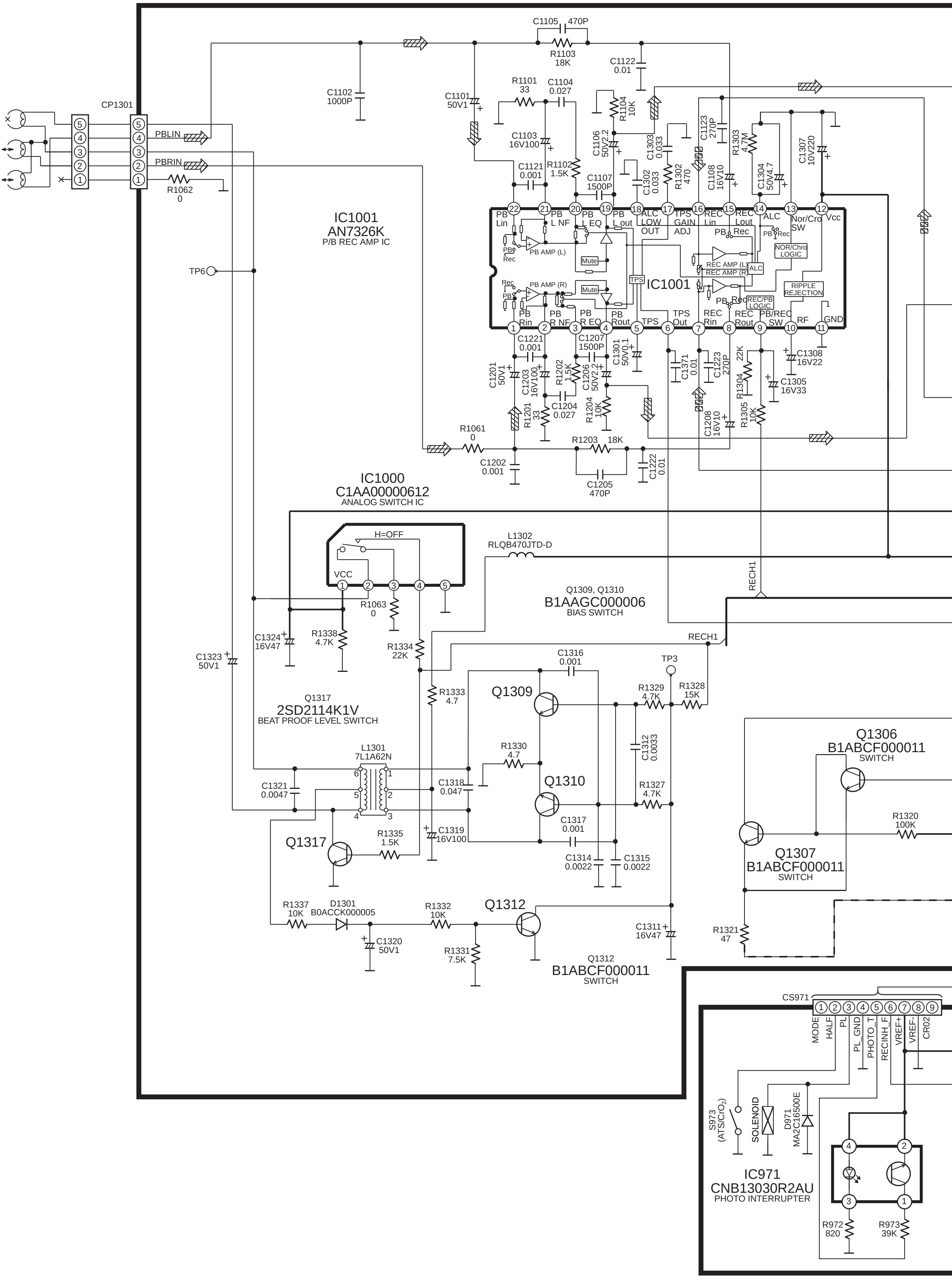
SCHEMATIC DIAGRAM-16

H DECK CIRCUIT

—— : +B SIGNAL LINE

▨⇨ : TAPE PLAYBACK SIGNAL LINE

▨⇨ : TAPE RECORD SIGNAL LINE


CP1301
PBLIN
PBRIN
R1062
0
TP6
C1102
1000P
C1101
50V1
C1105
470P
R1103
18K
C1122
0.01
R1101
33
C1104
0.027
C1103
16V100
C1121
0.001
R1102
1.5K
C1107
1500P
C1106
50V2.2
R1104
10K
C1302
0.033
C1303
0.033
R1302
470
C1108
16V10
C1123
270P
R1303
4.7M
C1304
50V4.7
C1307
10V220
IC1001
AN7326K
P/B REC AMP IC
PB Lin
PB L NF
PB L EQ
PB L out
ALC LOW OUT
TPS GAIN ADJ
REC Lin
REC Lout
ALC
Nor/Cro SW
Vcc
PB AMP (L)
PB AMP (R)
Mute
REC AMP (L)
REC AMP (R)
NOR/Chro LOGIC
REC/PB LOGIC
RIPPLE REJECTION
TPS
PB Rin
PB R NF
PB R EQ
PB Rout
TPS Out
REC Rin
REC Rout
PB/REC SW
RF
GND
C1221
0.001
C1207
1500P
C1301
50V0.1
C1201
50V1
C1203
16V100
R1202
1.5K
C1206
50V2.2
C1371
0.01
C1223
270P
R1304
22K
C1308
16V22
C1305
16V33
R1201
33
C1204
0.027
R1204
10K
C1208
16V10
R1305
10K
R1061
0
R1203
18K
C1202
0.001
C1205
470P
C1222
0.01
IC1000
C1AA00000612
ANALOG SWITCH IC
H=OFF
VCC
L1302
RLQB470JTD-D
R1063
0
Q1309, Q1310
B1AAGC000006
BIAS SWITCH
RECH1
C1324
16V47
R1338
4.7K
R1334
22K
C1323
50V1
C1316
0.001
TP3
R1333
4.7
Q1309
R1329
4.7K
R1328
15K
Q1317
2SD2114K1V
BEAT PROOF LEVEL SWITCH
L1301
7L1A62N
R1330
4.7
C1312
0.0033
Q1306
B1ABCF000011
SWITCH
C1321
0.0047
C1318
0.047
Q1310
R1327
4.7K
R1320
100K
C1319
16V100
C1317
0.001
Q1307
B1ABCF000011
SWITCH
Q1317
R1335
1.5K
C1314
0.0022
C1315
0.0022
R1337
10K
D1301
B0ACCK000005
R1332
10K
Q1312
C1311
16V47
R1321
47
C1320
50V1
R1331
7.5K
Q1312
B1ABCF000011
SWITCH
CS971
MODE
HALF
PL
PL_GND
PHOTO_T
RECINH_F
VREF+
VREF-
CR02
S973
(ATS/CrO2)
SOLENOID
D971
MA2C16500E
IC971
CNB13030R2AU
PHOTO INTERRUPTER
R972
820
R973
39K

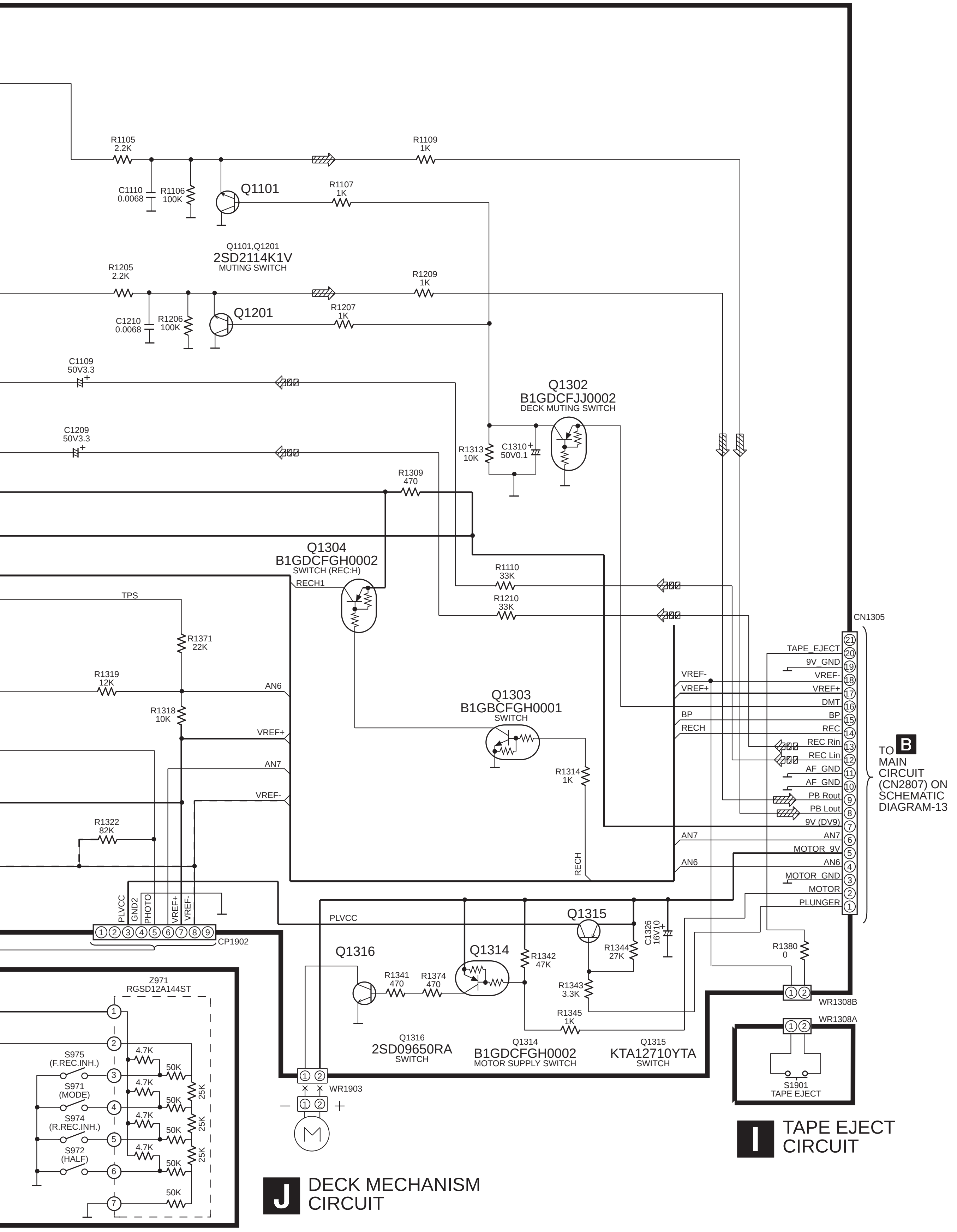
SCHEMATIC DIAGRAM-17

H DECK CIRCUIT

—— : +B SIGNAL LINE

▨ : TAPE PLAYBACK SIGNAL LINE

▨ : TAPE RECORD SIGNAL LINE


R1105
2.2K
R1109
1K
C1110
0.0068
R1106
100K
Q1101
R1107
1K
Q1101,Q1201
2SD2114K1V
MUTING SWITCH
R1205
2.2K
R1209
1K
C1210
0.0068
R1206
100K
Q1201
R1207
1K
C1109
50V3.3
Q1302
B1GDCFJJ0002
DECK MUTING SWITCH
C1209
50V3.3
R1313
10K
C1310
50V0.1
R1309
470
Q1304
B1GDCFGH0002
SWITCH (REC:H)
RECH1
R1110
33K
R1210
33K
TPS
CN1305
R1371
22K
R1319
12K
AN6
R1318
10K
VREF+
AN7
VREF-
Q1303
B1GBCFGH0001
SWITCH
R1314
1K
R1322
82K
RECH
TAPE_EJECT
9V_GND
VREF-
VREF+
DMT
BP
REC
REC Rin
REC Lin
AF_GND
AF_GND
PB Rout
PB Lout
9V (DV9)
AN7
MOTOR_9V
AN6
MOTOR_GND
MOTOR
PLUNGER
BP
RECH
AN7
AN6
TO B MAIN CIRCUIT (CN2807) ON SCHEMATIC DIAGRAM-13
PLVCC
GND2
PHOTO
VREF+
VREF-
CP1902
PLVCC
Q1315
C1326
16V10
Q1316
Q1314
R1342
47K
R1344
27K
R1380
0
R1341
470
R1374
470
R1343
3.3K
WR1308B
WR1308A
R1345
1K
Q1316
2SD09650RA
SWITCH
Q1314
B1GDCFGH0002
MOTOR SUPPLY SWITCH
Q1315
KTA12710YTA
SWITCH
S1901
TAPE EJECT
WR1903
− M +
I TAPE EJECT CIRCUIT
Z971
RGSD12A144ST
S975
(F.REC.INH.)
S971
(MODE)
S974
(R.REC.INH.)
S972
(HALF)
4.7K
50K
25K
J DECK MECHANISM CIRCUIT

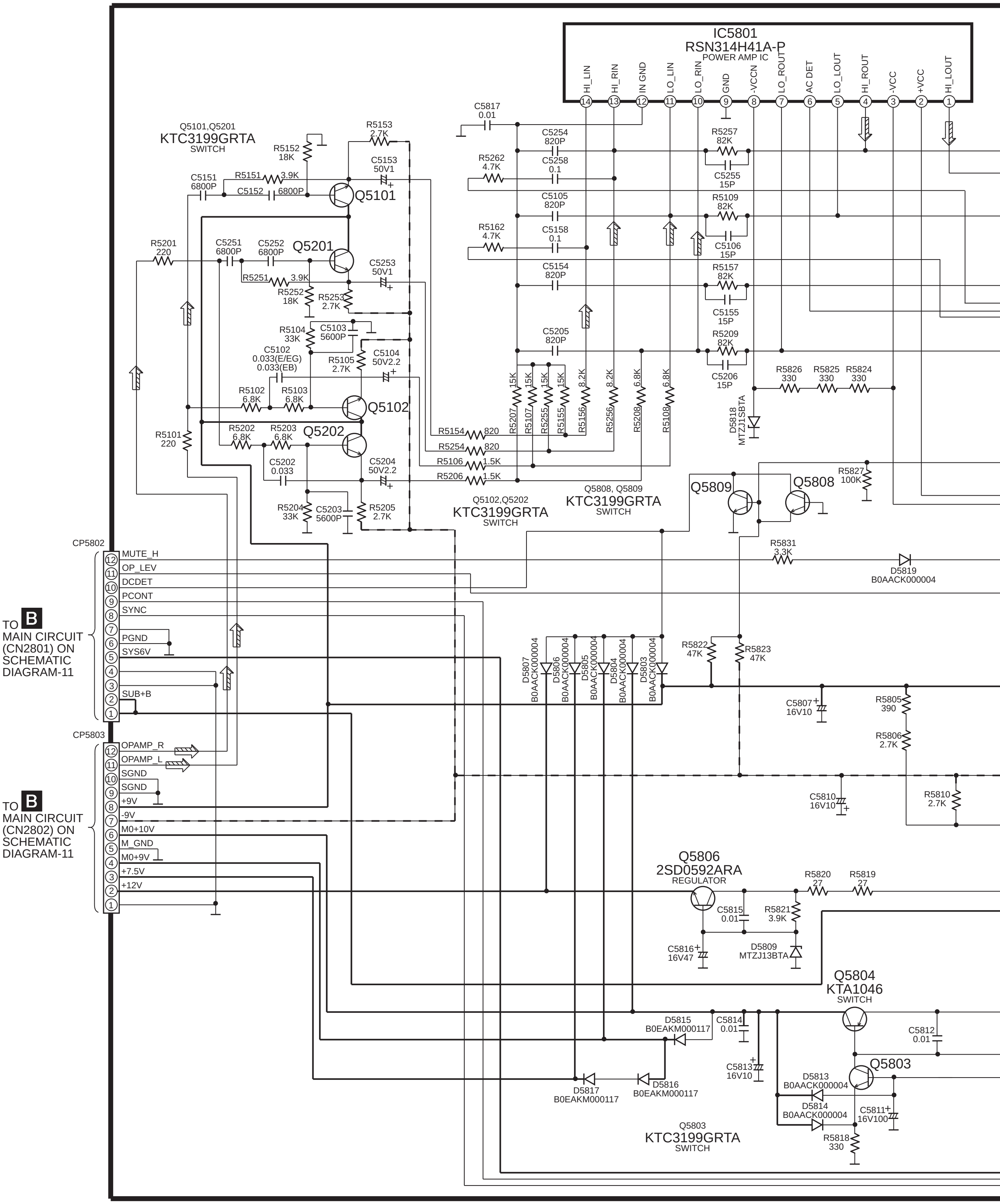
SCHEMATIC DIAGRAM-18

F POWER CIRCUIT

- - - : -B SIGNAL LINE

——— : +B SIGNAL LINE

⇨ : MAIN SIGNAL LINE


IC5801
RSN314H41A-P
POWER AMP IC
HI_LIN
HI_RIN
IN GND
LO_LIN
LO_RIN
GND
-VCCN
LO_ROUT
AC DET
LO_LOUT
HI_ROUT
-VCC
+VCC
HI_LOUT
14
13
12
11
10
9
8
7
6
5
4
3
2
1
C5817
0.01
Q5101,Q5201
KTC3199GRTA
SWITCH
R5153
2.7K
R5152
18K
C5153
50V1
C5151
6800P
R5151
3.9K
C5152
6800P
Q5101
R5201
220
C5251
6800P
C5252
6800P
Q5201
C5253
50V1
R5251
3.9K
R5252
18K
R5253
2.7K
R5104
33K
C5103
5600P
C5102
0.033(E/EG)
0.033(EB)
R5105
2.7K
C5104
50V2.2
R5102
6.8K
R5103
6.8K
Q5102
R5101
220
R5202
6.8K
R5203
6.8K
Q5202
C5202
0.033
C5204
50V2.2
R5204
33K
C5203
5600P
R5205
2.7K
C5254
820P
C5258
0.1
R5262
4.7K
R5257
82K
C5255
15P
C5105
820P
R5109
82K
R5162
4.7K
C5158
0.1
C5106
15P
C5154
820P
R5157
82K
C5155
15P
C5205
820P
R5209
82K
C5206
15P
R5826
330
R5825
330
R5824
330
D5818
MTZJ15BTA
R5207 15K
R5107 15K
R5255 15K
R5155 15K
R5156 8.2K
R5256 8.2K
R5208 6.8K
R5108 6.8K
R5154 820
R5254 820
R5106 1.5K
R5206 1.5K
Q5102,Q5202
KTC3199GRTA
SWITCH
Q5808, Q5809
KTC3199GRTA
SWITCH
Q5809
Q5808
R5827
100K
CP5802
MUTE_H
OP_LEV
DCDET
PCONT
SYNC
PGND
SYS6V
SUB+B
12
11
10
9
8
7
6
5
4
3
2
1
TO B
MAIN CIRCUIT
(CN2801) ON
SCHEMATIC
DIAGRAM-11
R5831
3.3K
D5819
B0AACK000004
D5807 B0AACK000004
D5806 B0AACK000004
D5805 B0AACK000004
D5804 B0AACK000004
D5803 B0AACK000004
R5822
47K
R5823
47K
C5807
16V10
R5805
390
R5806
2.7K
CP5803
OPAMP_R
OPAMP_L
SGND
SGND
+9V
-9V
M0+10V
M_GND
M0+9V
+7.5V
+12V
12
11
10
9
8
7
6
5
4
3
2
1
TO B
MAIN CIRCUIT
(CN2802) ON
SCHEMATIC
DIAGRAM-11
C5810
16V10
R5810
2.7K
Q5806
2SD0592ARA
REGULATOR
R5820
27
R5819
27
C5815
0.01
R5821
3.9K
C5816
16V47
D5809
MTZJ13BTA
Q5804
KTA1046
SWITCH
D5815
B0EAKM000117
C5814
0.01
C5812
0.01
C5813
16V10
Q5803
D5813
B0AACK000004
D5814
B0AACK000004
C5811
16V100
R5818
330
D5817
B0EAKM000117
D5816
B0EAKM000117
Q5803
KTC3199GRTA
SWITCH

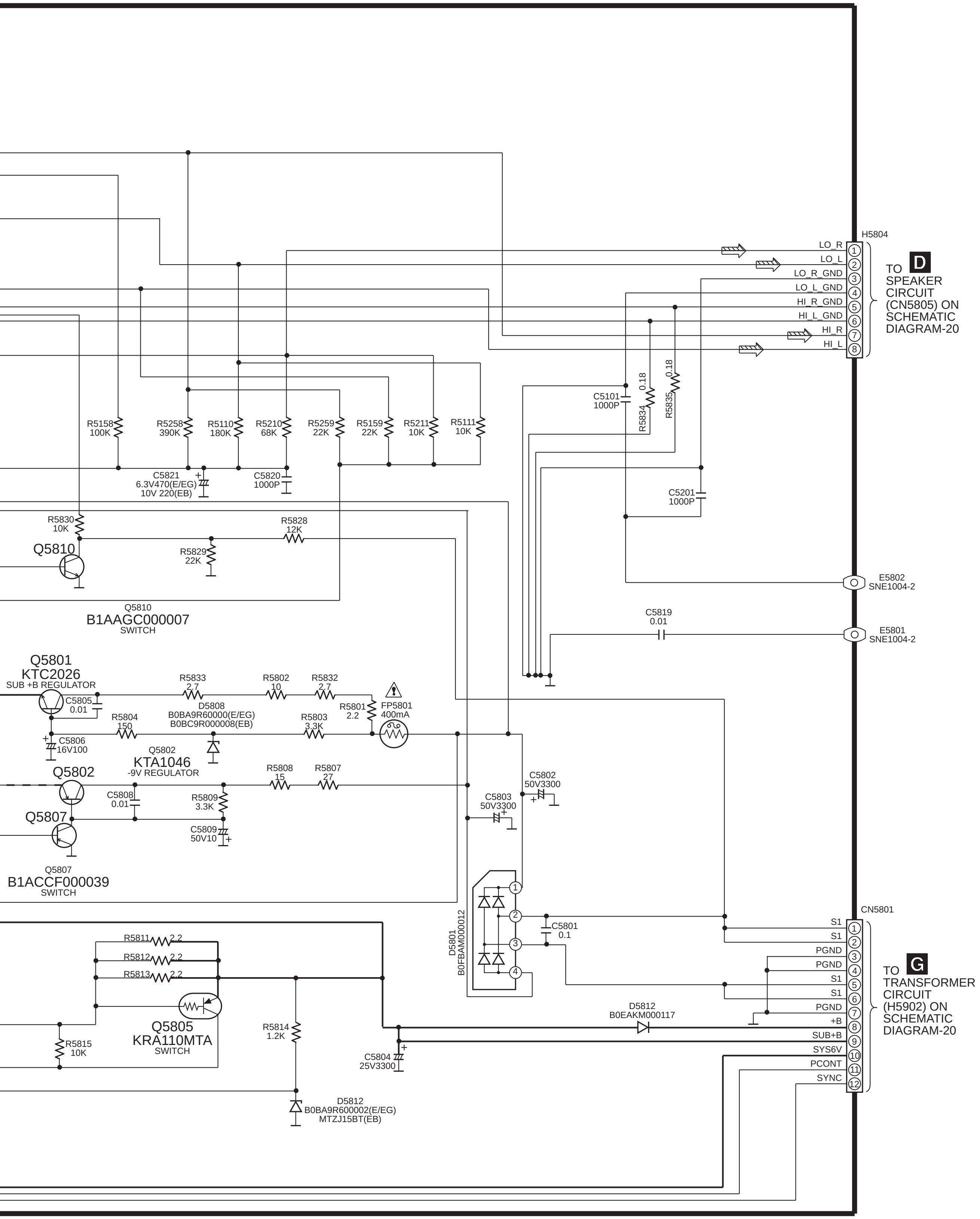
SCHEMATIC DIAGRAM-19

F POWER CIRCUIT

- - - : -B SIGNAL LINE

——— : +B SIGNAL LINE

⇨ : MAIN SIGNAL LINE


H5804
LO_R ①
LO_L ②
LO_R_GND ③
LO_L_GND ④
HI_R_GND ⑤
HI_L_GND ⑥
HI_R ⑦
HI_L ⑧
TO D SPEAKER CIRCUIT (CN5805) ON SCHEMATIC DIAGRAM-20
R5158 100K
R5258 390K
R5110 180K
R5210 68K
R5259 22K
R5159 22K
R5211 10K
R5111 10K
C5101 1000P
R5834 0.18
R5835 0.18
C5821 6.3V470(E/EG) 10V 220(EB)
C5820 1000P
C5201 1000P
R5830 10K
R5828 12K
Q5810
R5829 22K
Q5810 B1AAGC000007 SWITCH
E5802 SNE1004-2
C5819 0.01
E5801 SNE1004-2
Q5801 KTC2026 SUB +B REGULATOR
C5805 0.01
R5833 2.7
R5802 10
R5832 2.7
R5801 2.2
FP5801 400mA
R5804 150
D5808 B0BA9R60000(E/EG) B0BC9R000008(EB)
R5803 3.3K
C5806 16V100
Q5802 KTA1046 -9V REGULATOR
Q5802
R5808 15
R5807 27
C5802 50V3300
C5803 50V3300
C5808 0.01
R5809 3.3K
Q5807
C5809 50V10
Q5807 B1ACCF000039 SWITCH
D5801 B0FBAM000012
C5801 0.1
CN5801
S1 ①
S1 ②
PGND ③
PGND ④
S1 ⑤
S1 ⑥
PGND ⑦
+B ⑧
SUB+B ⑨
SYS6V ⑩
PCONT ⑪
SYNC ⑫
TO G TRANSFORMER CIRCUIT (H5902) ON SCHEMATIC DIAGRAM-20
R5811 2.2
R5812 2.2
R5813 2.2
Q5805 KRA110MTA SWITCH
R5814 1.2K
D5812 B0EAKM000117
R5815 10K
C5804 25V3300
D5812 B0BA9R600002(E/EG) MTZJ15BT(EB)

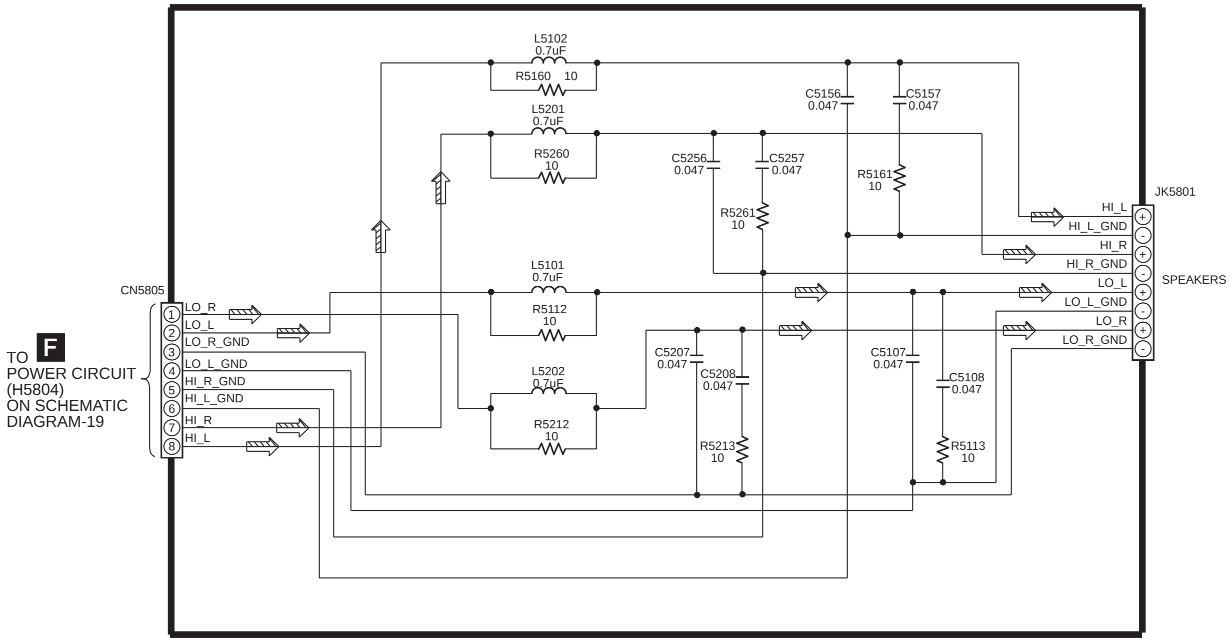
SCHEMATIC DIAGRAM-20

- - - : -B SIGNAL LINE

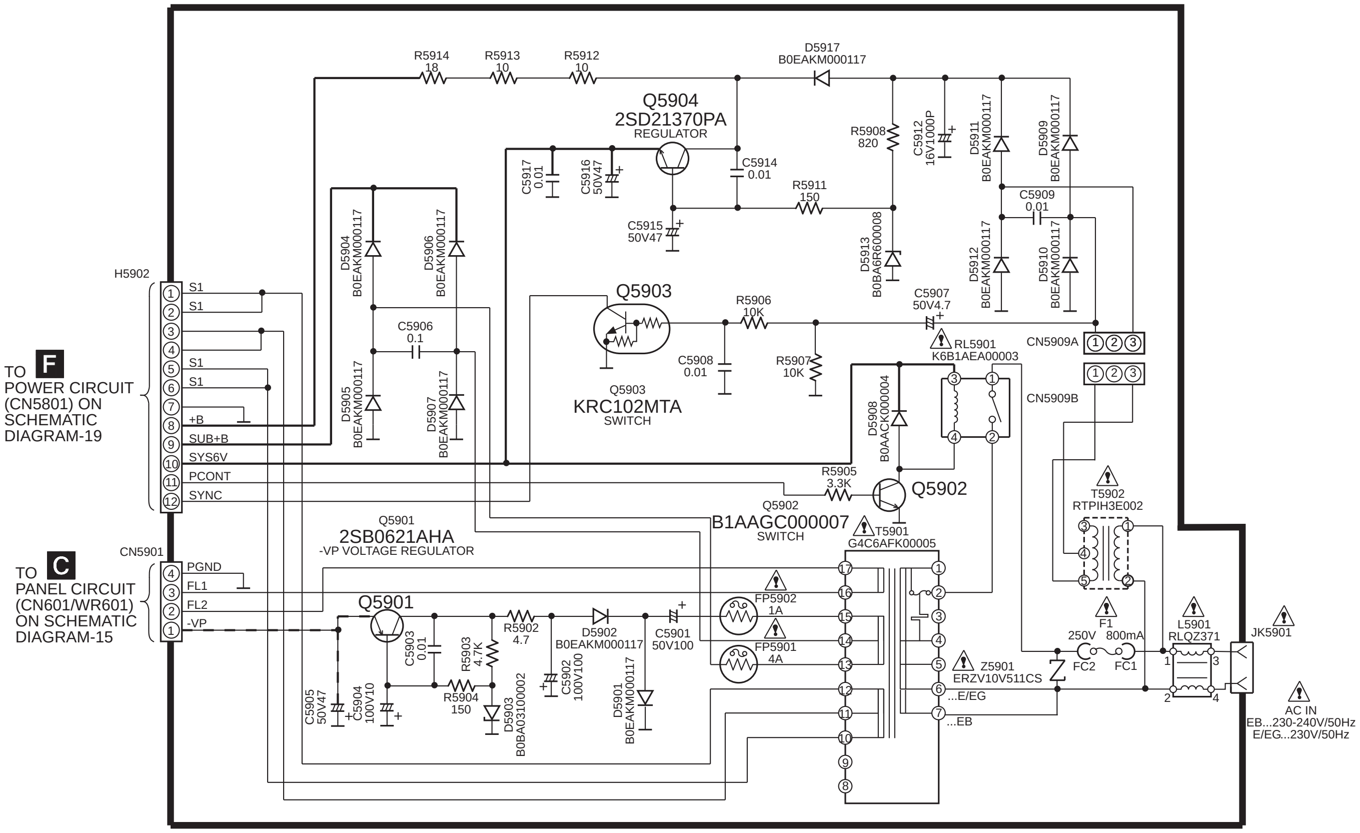
——— : +B SIGNAL LINE

⇨ : MAIN SIGNAL LINE

D SPEAKER CIRCUIT

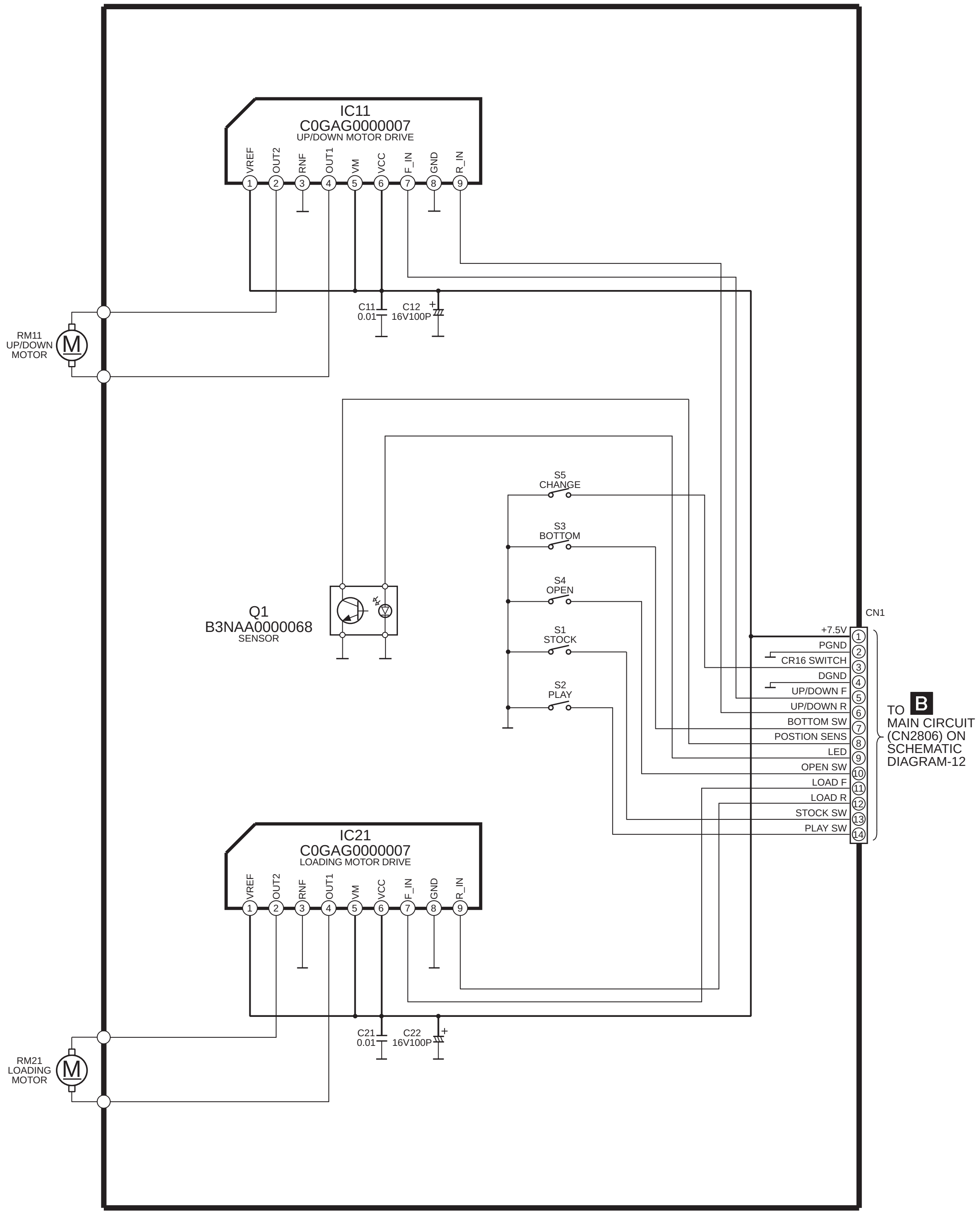

L5102
0.7uF
R5160 10
L5201
0.7uF
R5260
10
C5156
0.047
C5157
0.047
C5256
0.047
C5257
0.047
R5161
10
R5261
10
JK5801
HI_L
HI_L_GND
HI_R
HI_R_GND
LO_L
LO_L_GND
LO_R
LO_R_GND
SPEAKERS
CN5805
LO_R
LO_L
LO_R_GND
LO_L_GND
HI_R_GND
HI_L_GND
HI_R
HI_L
TO F
POWER CIRCUIT
(H5804)
ON SCHEMATIC
DIAGRAM-19
L5101
0.7uF
R5112
10
L5202
0.7uF
R5212
10
C5207
0.047
C5208
0.047
R5213
10
C5107
0.047
C5108
0.047
R5113
10

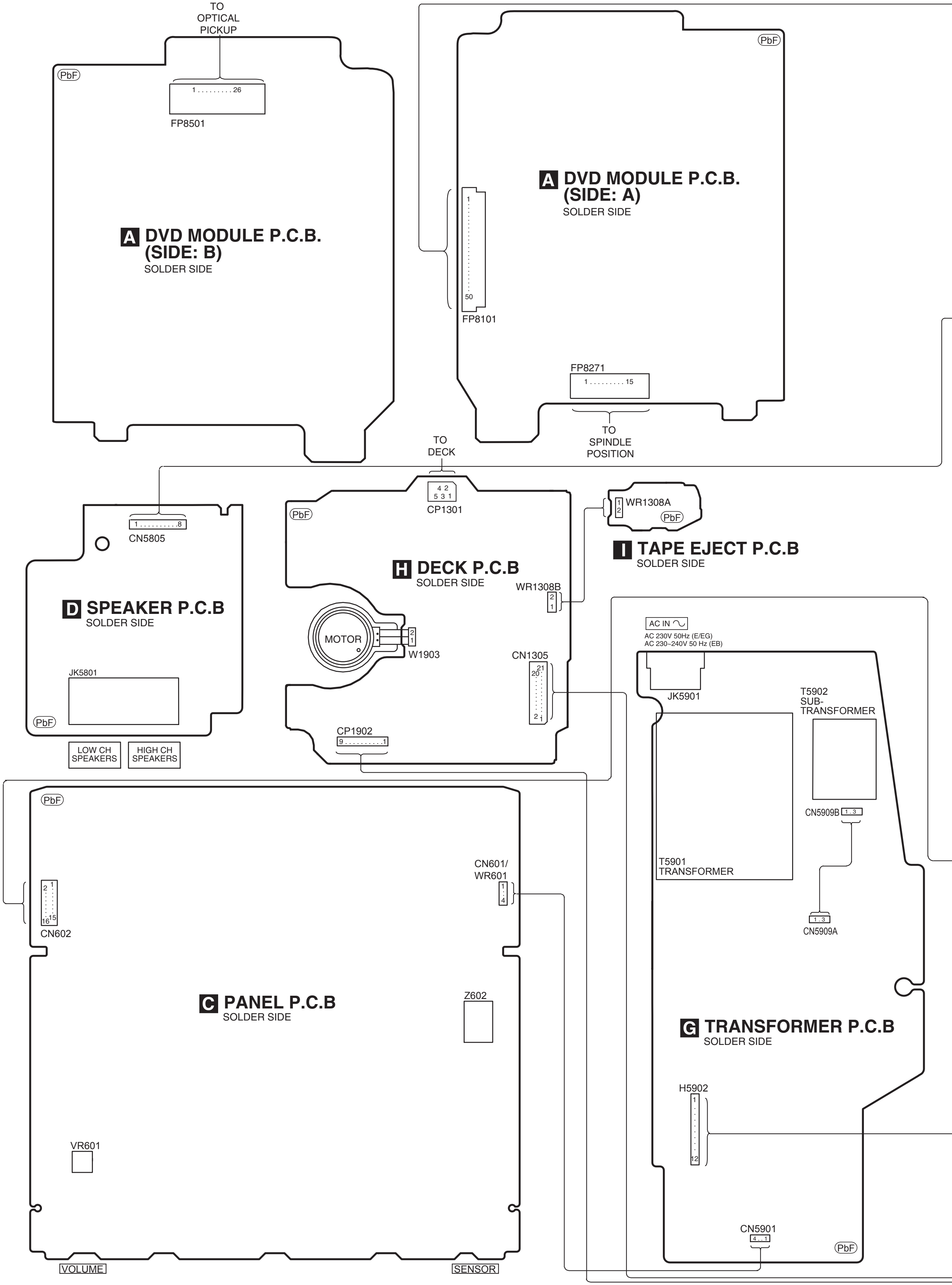
G TRANSFORMER CIRCUIT

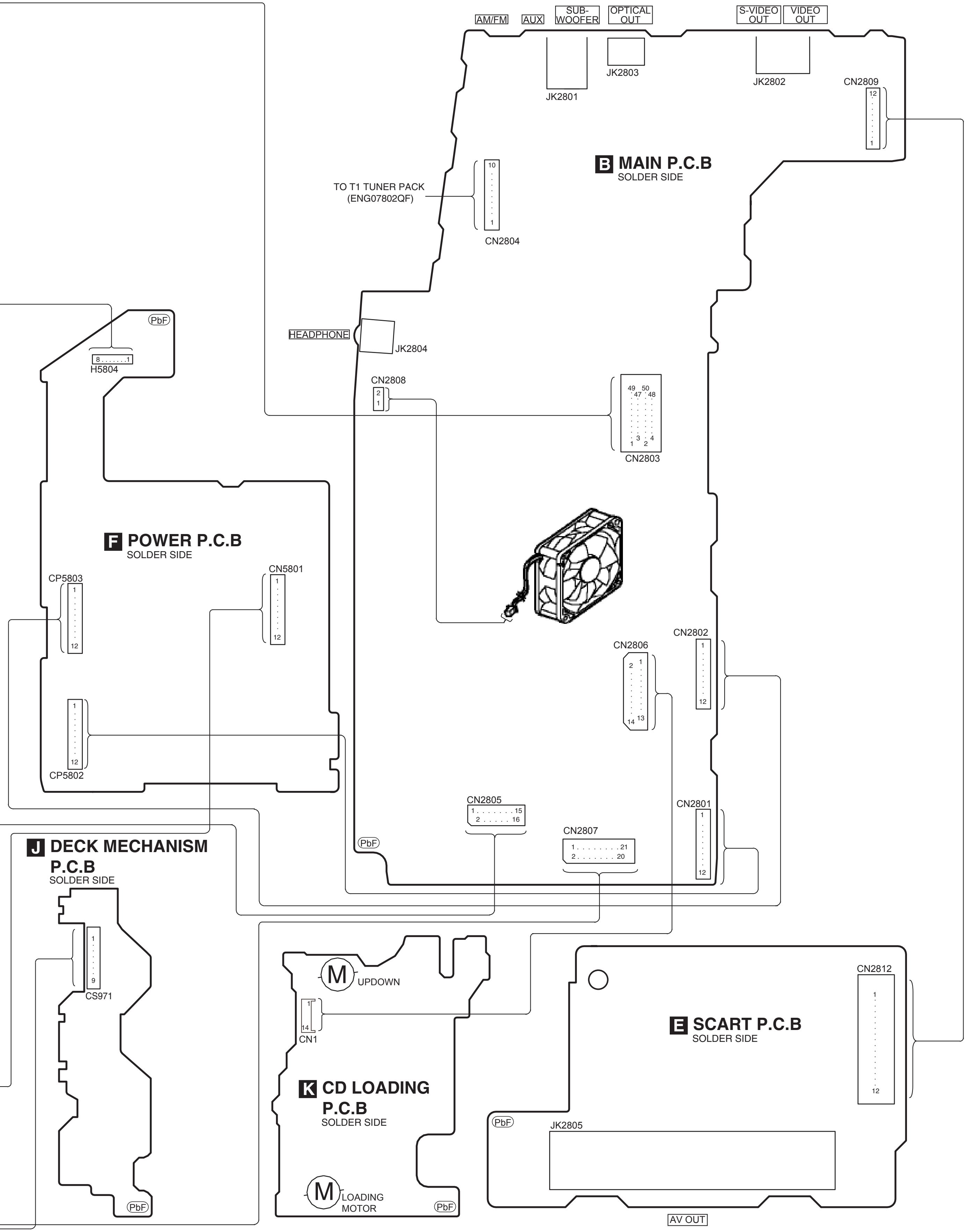

R5914
18
R5913
10
R5912
10
D5917
B0EAKM000117
Q5904
2SD21370PA
REGULATOR
C5917
0.01
C5916
50V47
C5914
0.01
C5915
50V47
R5911
150
R5908
820
C5912
16V1000P
D5911
B0EAKM000117
D5909
B0EAKM000117
C5909
0.01
D5913
B0BA6R600008
D5912
B0EAKM000117
D5910
B0EAKM000117
H5902
S1
S1
S1
S1
+B
SUB+B
SYS6V
PCONT
SYNC
TO F
POWER CIRCUIT
(CN5801) ON
SCHEMATIC
DIAGRAM-19
D5904
B0EAKM000117
D5906
B0EAKM000117
C5906
0.1
D5905
B0EAKM000117
D5907
B0EAKM000117
Q5903
KRC102MTA
SWITCH
R5906
10K
C5907
50V4.7
C5908
0.01
R5907
10K
RL5901
K6B1AEA00003
CN5909A
CN5909B
D5908
B0AACK000004
R5905
3.3K
Q5902
B1AAGC000007
SWITCH
T5902
RTPIH3E002
T5901
G4C6AFK00005
CN5901
PGND
FL1
FL2
-VP
TO C
PANEL CIRCUIT
(CN601/WR601)
ON SCHEMATIC
DIAGRAM-15
Q5901
2SB0621AHA
-VP VOLTAGE REGULATOR
C5903
0.01
R5903
4.7K
R5902
4.7
D5902
B0EAKM000117
C5901
50V100
FP5902
1A
FP5901
4A
C5905
50V47
C5904
100V10
R5904
150
D5903
B0BA03100002
C5902
100V100
D5901
B0EAKM000117
Z5901
ERZV10V511CS
...E/EG
...EB
F1
250V 800mA
FC2
FC1
L5901
RLQZ371
JK5901
AC IN
EB...230-240V/50Hz
E/EG...230V/50Hz

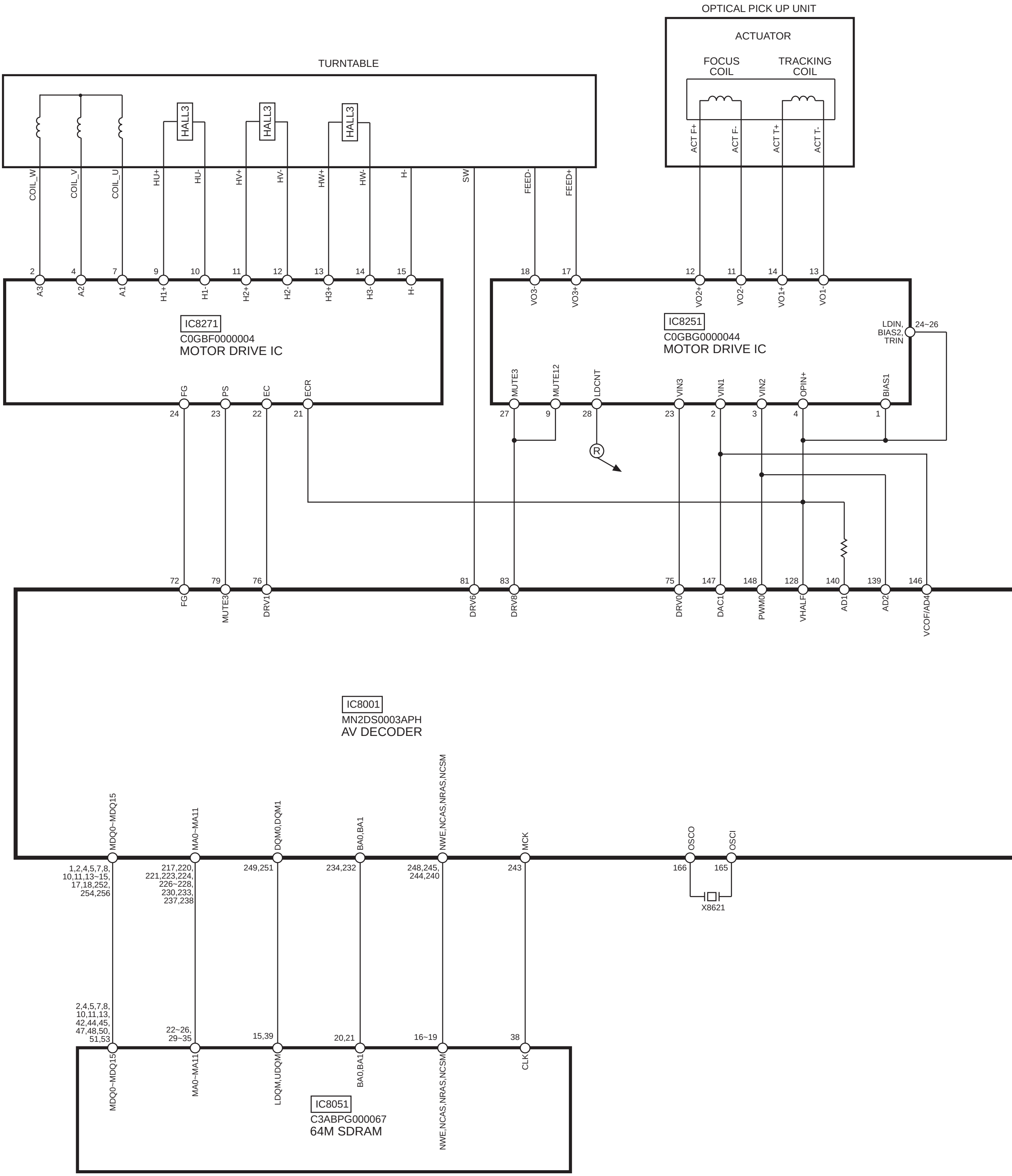
K CD LOADING CIRCUIT

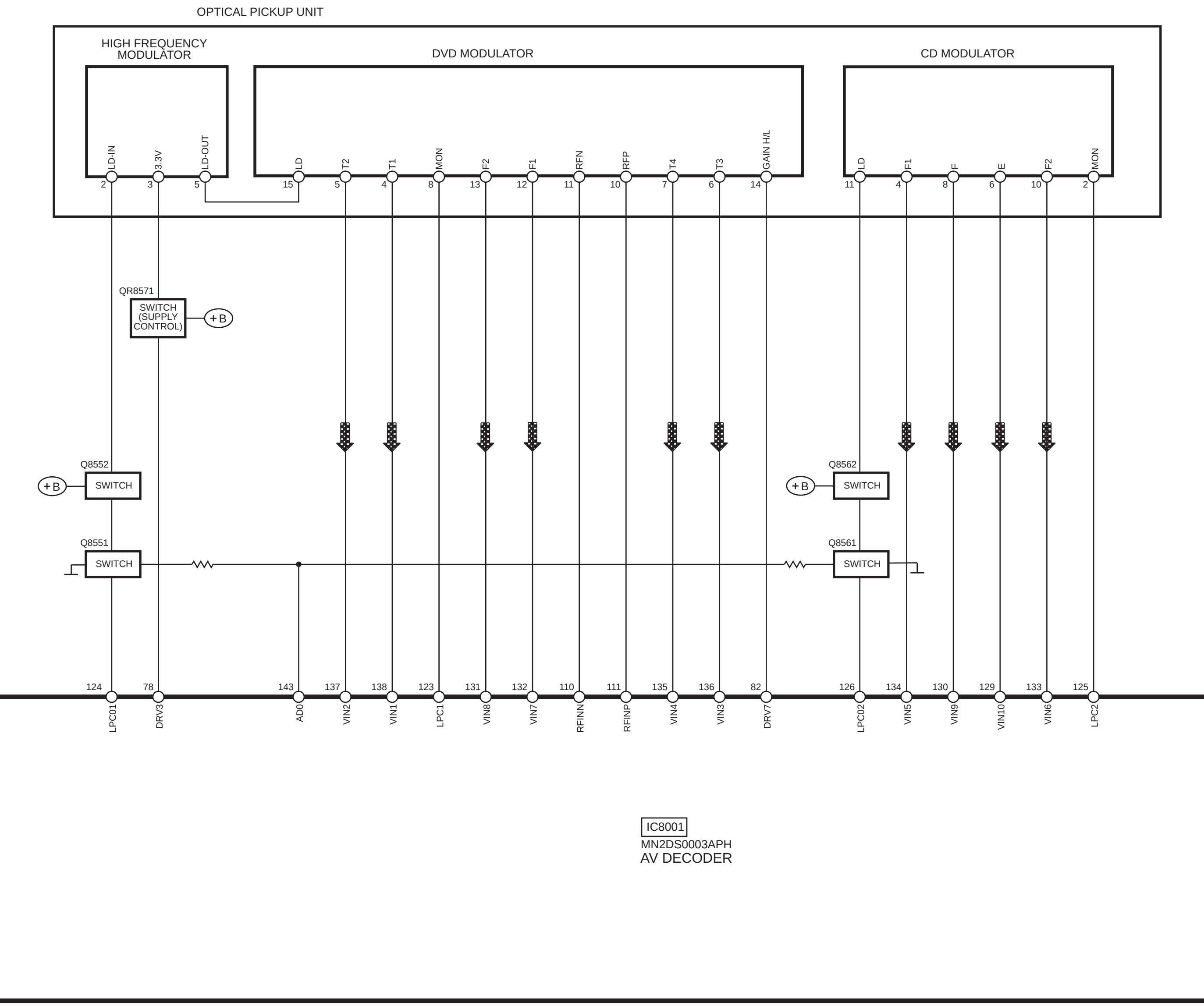
: +B SIGNAL LINE

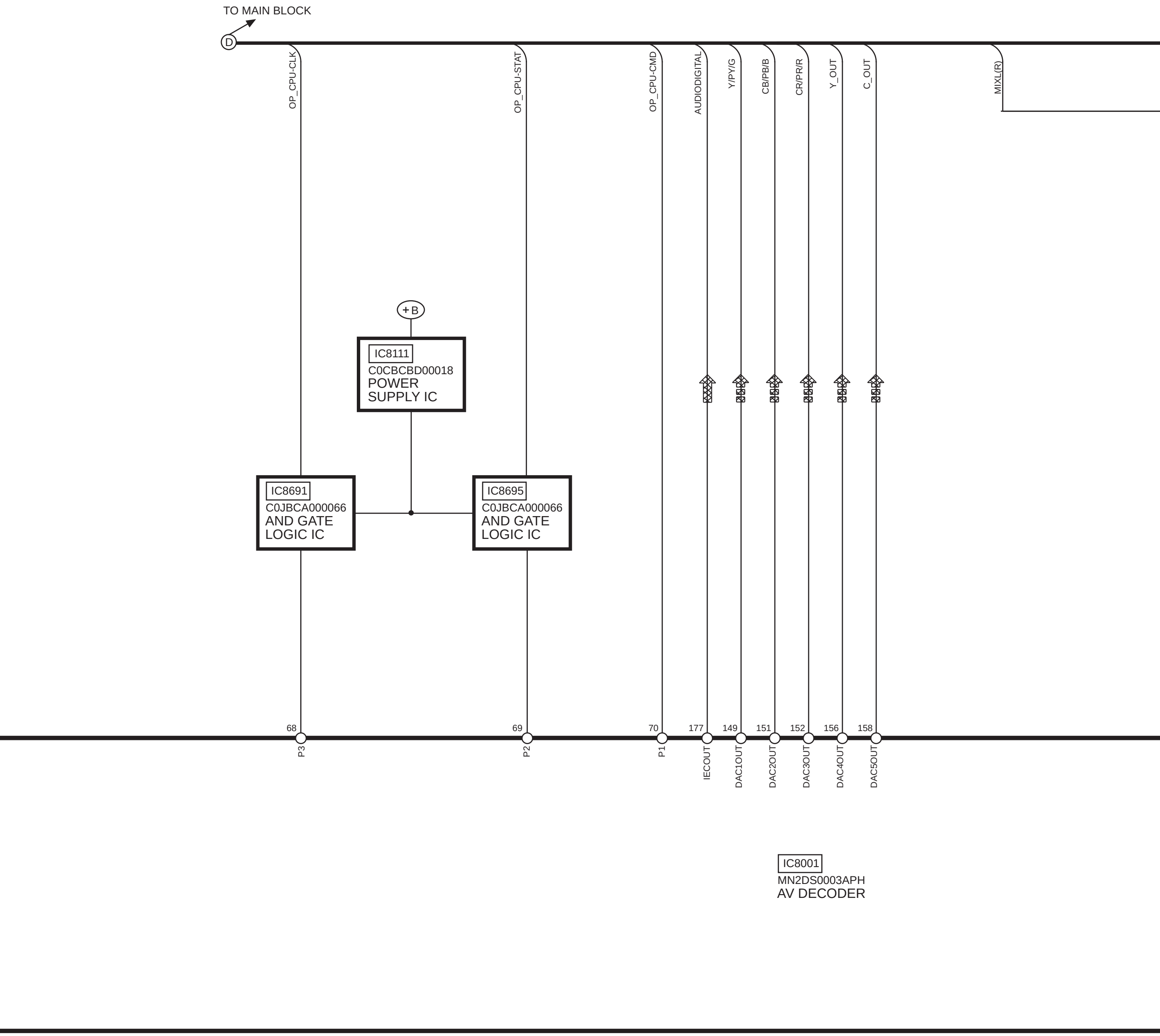

IC11
C0GAG0000007
UP/DOWN MOTOR DRIVE
VREF
OUT2
RNF
OUT1
VM
VCC
F_IN
GND
R_IN
1
2
3
4
5
6
7
8
9
C11
0.01
C12
16V100P
RM11
UP/DOWN
MOTOR
M
S5
CHANGE
S3
BOTTOM
S4
OPEN
S1
STOCK
S2
PLAY
Q1
B3NAA0000068
SENSOR
CN1
+7.5V
PGND
CR16 SWITCH
DGND
UP/DOWN F
UP/DOWN R
BOTTOM SW
POSTION SENS
LED
OPEN SW
LOAD F
LOAD R
STOCK SW
PLAY SW
1
2
3
4
5
6
7
8
9
10
11
12
13
14
TO B
MAIN CIRCUIT
(CN2806) ON
SCHEMATIC
DIAGRAM-12
IC21
C0GAG0000007
LOADING MOTOR DRIVE
VREF
OUT2
RNF
OUT1
VM
VCC
F_IN
GND
R_IN
1
2
3
4
5
6
7
8
9
C21
0.01
C22
16V100P
RM21
LOADING
MOTOR
M

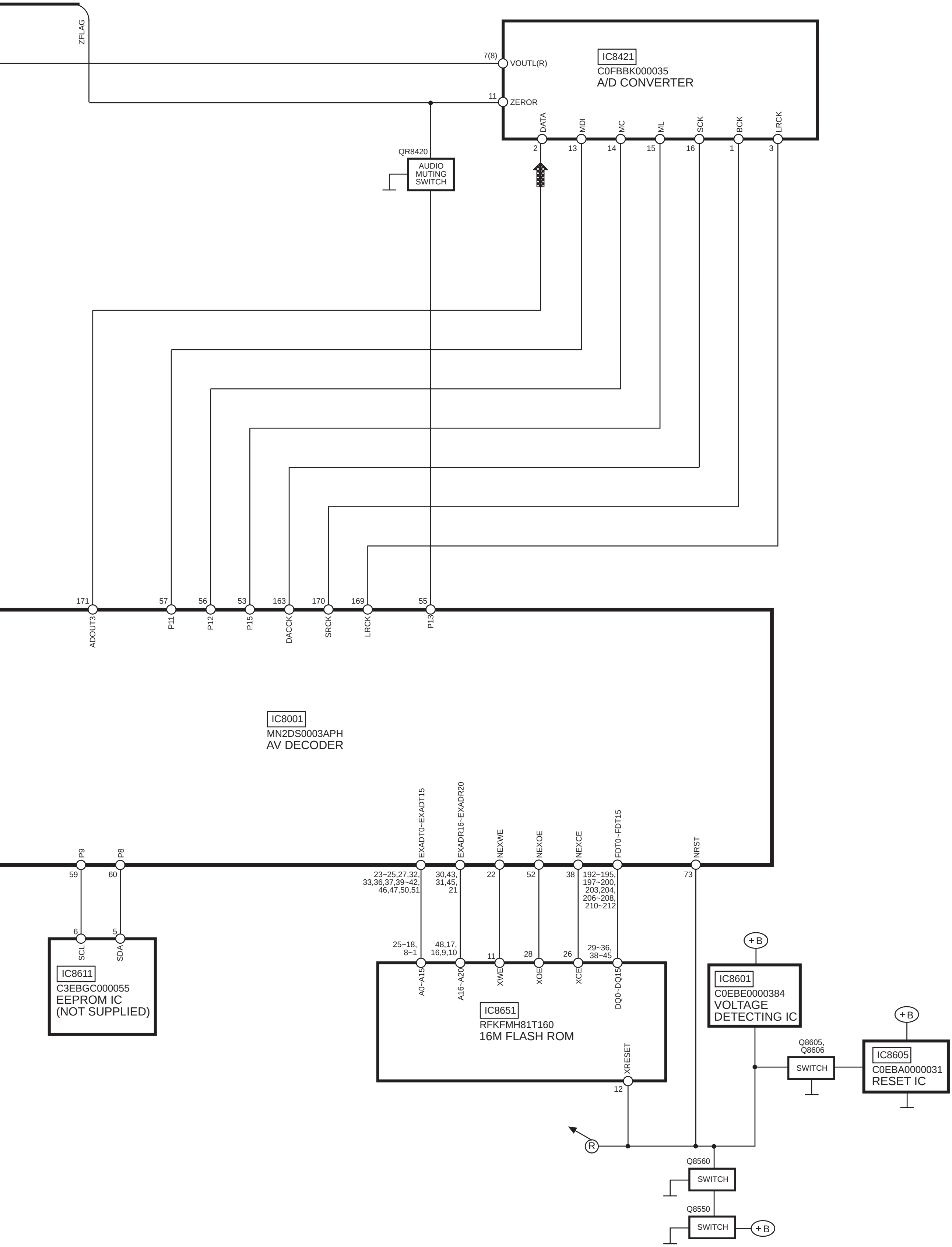

TO OPTICAL PICKUP
PbF
1 26
FP8501
A DVD MODULE P.C.B. (SIDE: B)
SOLDER SIDE
PbF
A DVD MODULE P.C.B. (SIDE: A)
SOLDER SIDE
1
50
FP8101
FP8271
1 15
TO SPINDLE POSITION
TO DECK
4 2
5 3 1
CP1301
PbF
H DECK P.C.B
SOLDER SIDE
WR1308B
MOTOR
W1903
CN1305
21
20
2
1
CP1902
9 1
1
2
WR1308A
PbF
I TAPE EJECT P.C.B
SOLDER SIDE
1 8
CN5805
D SPEAKER P.C.B
SOLDER SIDE
JK5801
PbF
LOW CH SPEAKERS
HIGH CH SPEAKERS
PbF
2
1
16
15
CN602
CN601/ WR601
1
4
C PANEL P.C.B
SOLDER SIDE
Z602
VR601
VOLUME
SENSOR
AC IN ∿
AC 230V 50Hz (E/EG)
AC 230~240V 50 Hz (EB)
JK5901
T5902 SUB-TRANSFORMER
CN5909B
1 . 3
T5901 TRANSFORMER
1 . 3
CN5909A
G TRANSFORMER P.C.B
SOLDER SIDE
H5902
1
12
CN5901
4 . . 1
PbF

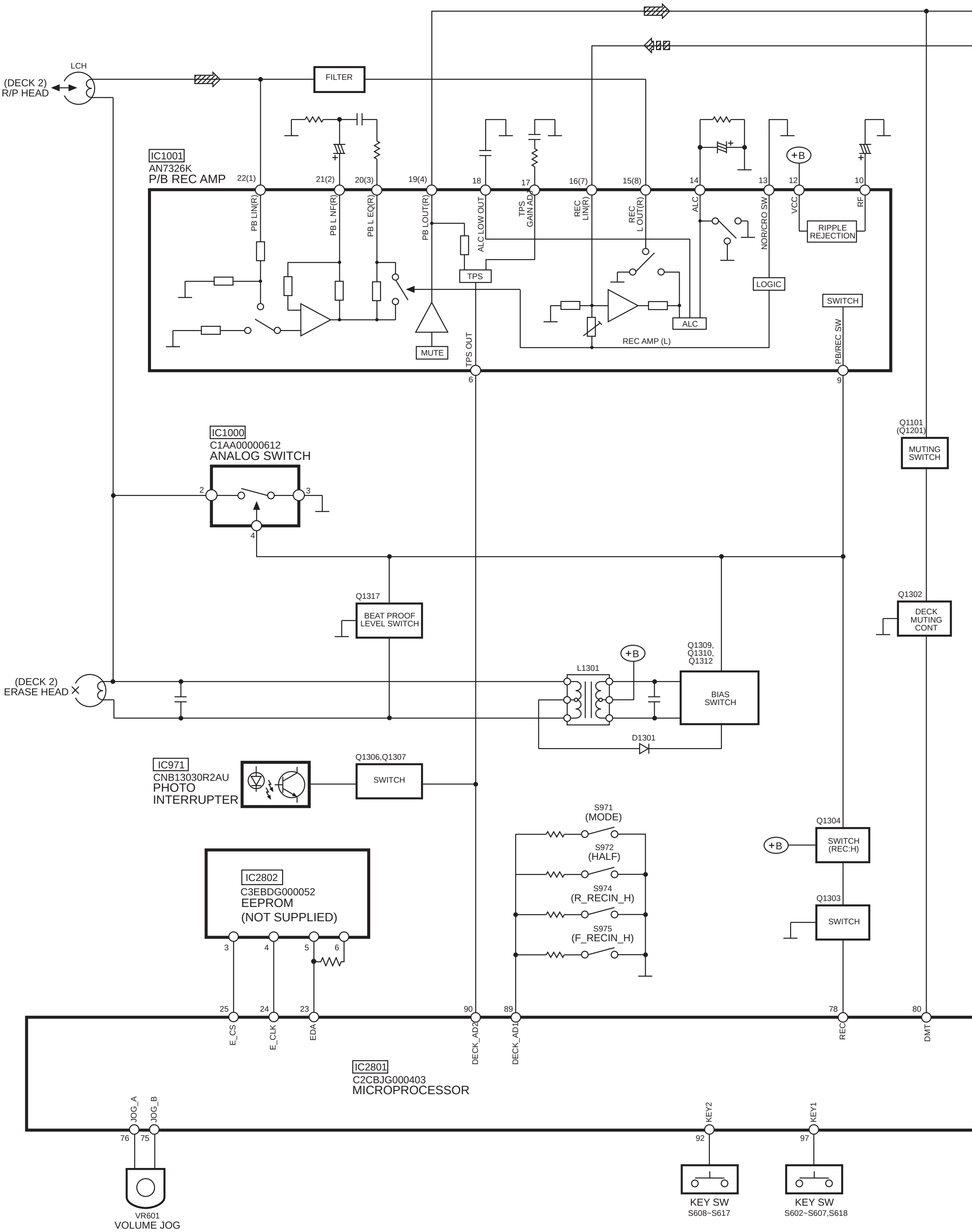

AM/FM
AUX
SUB-WOOFER
OPTICAL OUT
S-VIDEO OUT
VIDEO OUT
JK2803
JK2801
JK2802
CN2809
B MAIN P.C.B
SOLDER SIDE
TO T1 TUNER PACK (ENG07802QF)
CN2804
PbF
H5804
HEADPHONE
JK2804
CN2808
CN2803
F POWER P.C.B
SOLDER SIDE
CP5803
CN5801
CN2806
CN2802
CP5802
CN2805
CN2801
CN2807
J DECK MECHANISM P.C.B
SOLDER SIDE
CS971
M
UPDOWN
CN1
CN2812
E SCART P.C.B
SOLDER SIDE
K CD LOADING P.C.B
SOLDER SIDE
JK2805
M
LOADING MOTOR
AV OUT

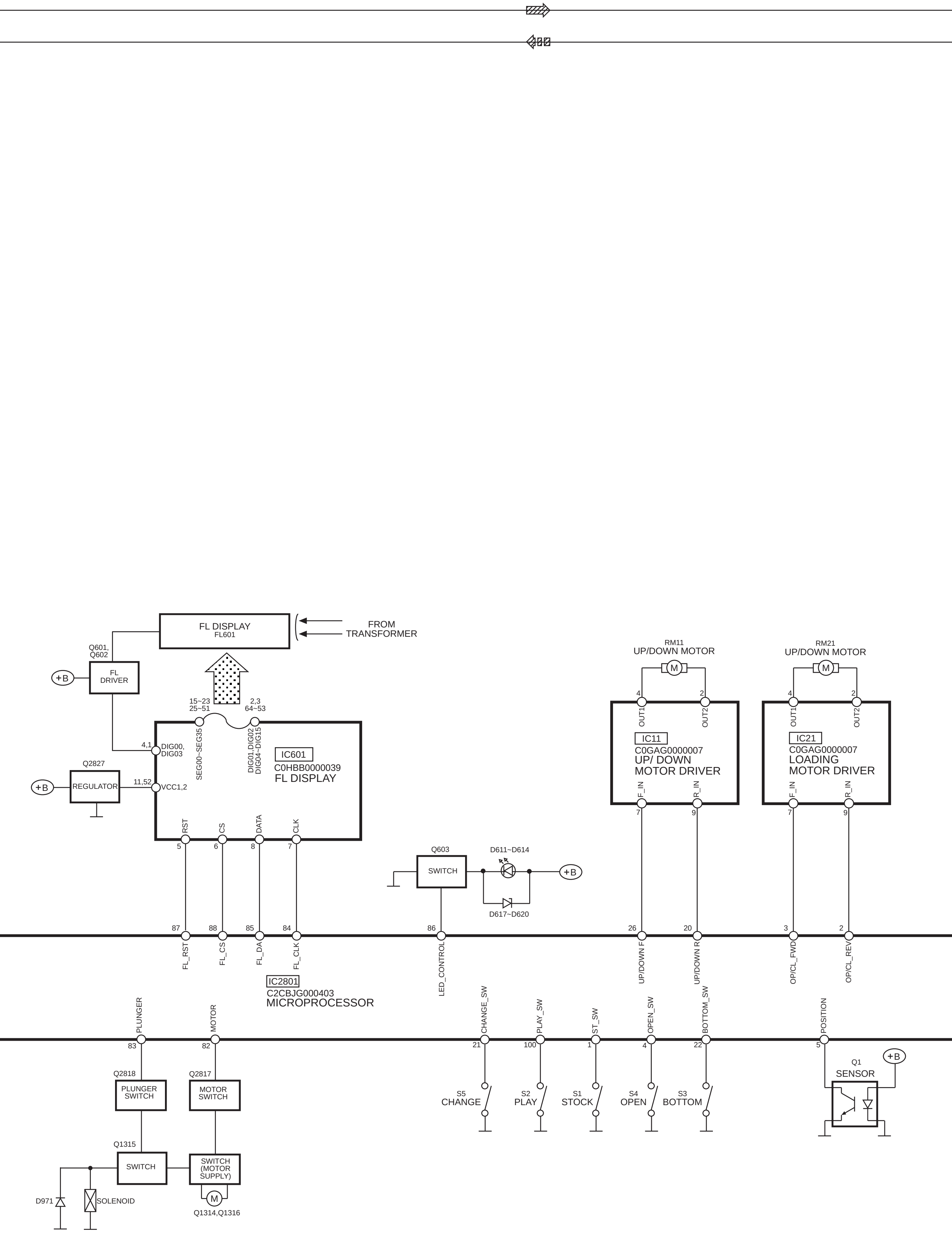

OPTICAL PICK UP UNIT
ACTUATOR
FOCUS COIL
TRACKING COIL
ACT F+
ACT F-
ACT T+
ACT T-
TURNTABLE
HALL3
HALL3
HALL3
COIL_W
COIL_V
COIL_U
HU+
HU-
HV+
HV-
HW+
HW-
H-
SW
FEED-
FEED+
2 4 7 9 10 11 12 13 14 15
A3 A2 A1 H1+ H1- H2+ H2- H3+ H3- H-
IC8271
C0GBF0000004
MOTOR DRIVE IC
FG PS EC ECR
24 23 22 21
18 17 12 11 14 13
VO3- VO3+ VO2+ VO2- VO1+ VO1-
IC8251
C0GBG0000044
MOTOR DRIVE IC
LDIN, BIAS2, TRIN
24~26
MUTE3 MUTE12 LDCNT VIN3 VIN1 VIN2 OPIN+ BIAS1
27 9 28 23 2 3 4 1
R
72 79 76 81 83 75 147 148 128 140 139 146
FG MUTE3 DRV1 DRV6 DRV8 DRV0 DAC1 PWM0 VHALF AD1 AD2 VCOF/AD4
IC8001
MN2DS0003APH
AV DECODER
MDQ0~MDQ15
MA0~MA11
DQM0,DQM1
BA0,BA1
NWE,NCAS,NRAS,NCSM
MCK
OSCO
OSCI
1,2,4,5,7,8, 10,11,13~15, 17,18,252, 254,256
217,220, 221,223,224, 226~228, 230,233, 237,238
249,251
234,232
248,245, 244,240
243
166
165
X8621
2,4,5,7,8, 10,11,13, 42,44,45, 47,48,50, 51,53
22~26, 29~35
15,39
20,21
16~19
38
MDQ0~MDQ15
MA0~MA11
LDQM,UDQM
BA0,BA1
NWE,NCAS,NRAS,NCSM
CLK
IC8051
C3ABPG000067
64M SDRAM

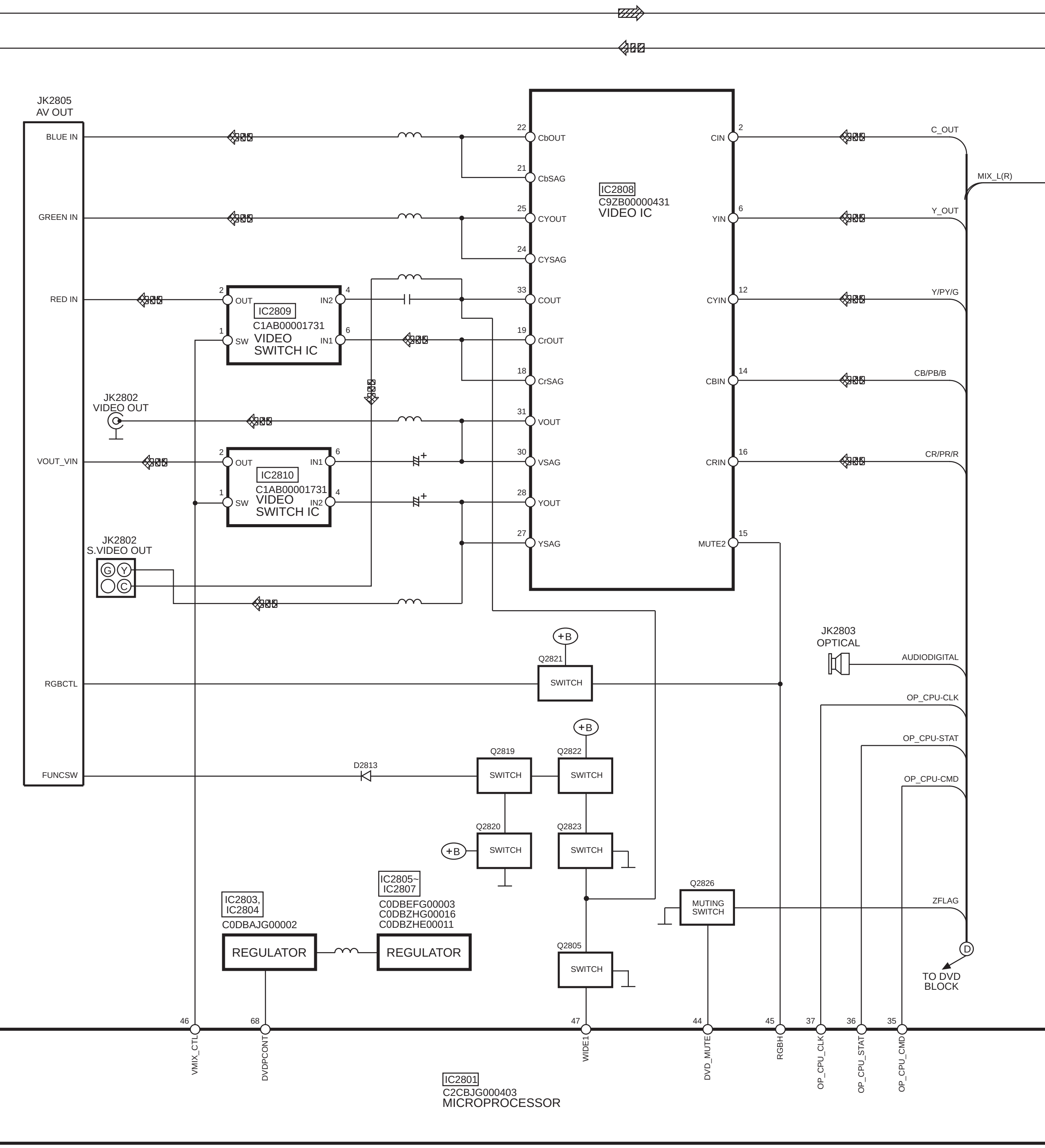

OPTICAL PICKUP UNIT
HIGH FREQUENCY MODULATOR
LD-IN
3.3V
LD-OUT
2
3
5
DVD MODULATOR
LD
T2
T1
MON
F2
F1
RFN
RFP
T4
T3
GAIN H/L
15
5
4
8
13
12
11
10
7
6
14
CD MODULATOR
LD
F1
F
E
F2
MON
11
4
8
6
10
2
QR8571
SWITCH (SUPPLY CONTROL)
+B
Q8552
SWITCH
+B
Q8551
SWITCH
Q8562
SWITCH
+B
Q8561
SWITCH
124
78
143
137
138
123
131
132
110
111
135
136
82
126
134
130
129
133
125
LPC01
DRV3
AD0
VIN2
VIN1
LPC1
VIN8
VIN7
RFINN
RFINP
VIN4
VIN3
DRV7
LPC02
VIN5
VIN9
VIN10
VIN6
LPC2
IC8001
MN2DS0003APH
AV DECODER

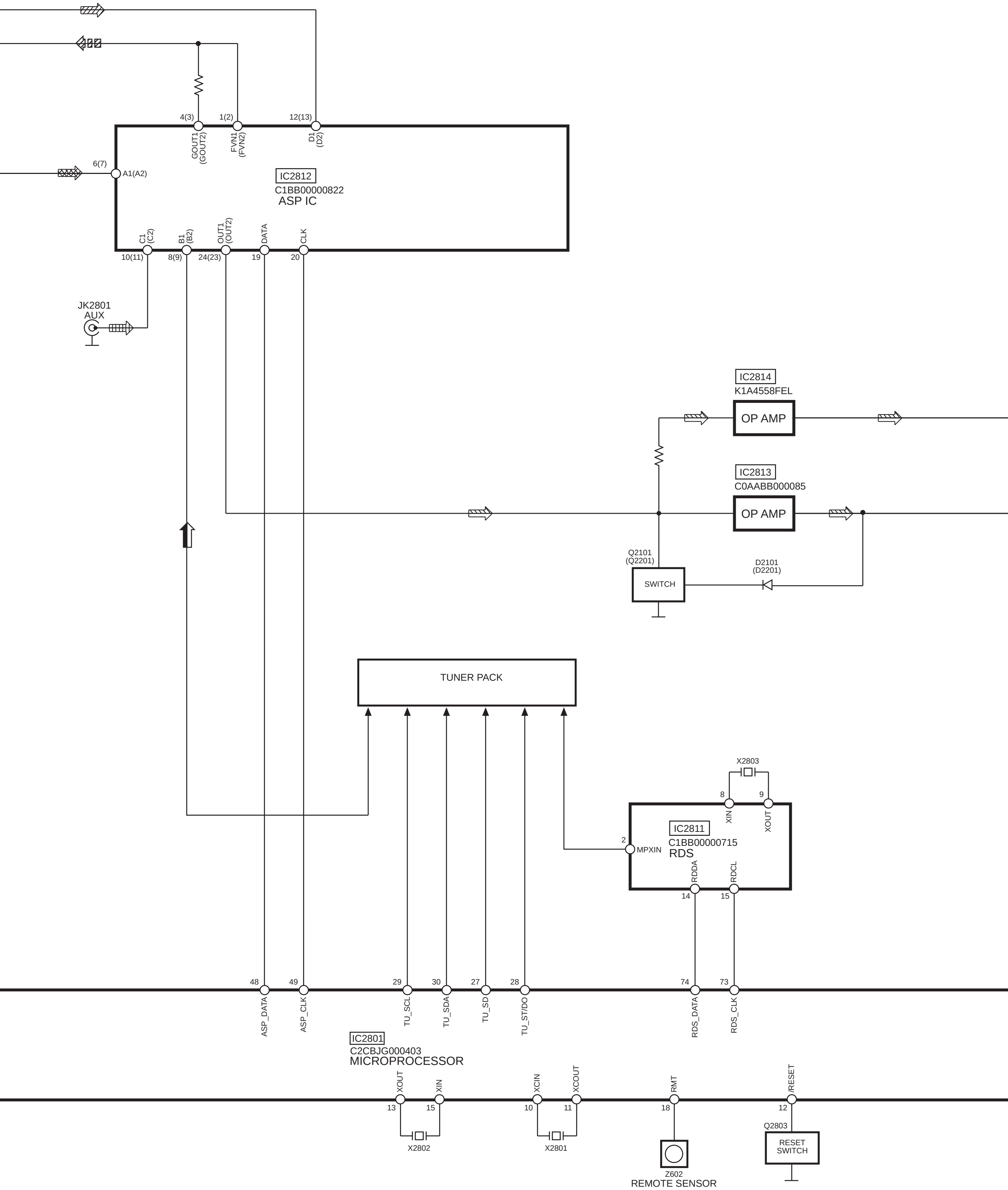

TO MAIN BLOCK
D
OP_CPU-CLK
OP_CPU-STAT
OP_CPU-CMD
AUDIODIGITAL
Y/PY/G
CB/PB/B
CR/PR/R
Y_OUT
C_OUT
MIXL(R)
+B
IC8111
C0CBCBD00018
POWER
SUPPLY IC
IC8691
C0JBCA000066
AND GATE
LOGIC IC
IC8695
C0JBCA000066
AND GATE
LOGIC IC
68
69
70
177
149
151
152
156
158
P3
P2
P1
IECOUT
DAC1OUT
DAC2OUT
DAC3OUT
DAC4OUT
DAC5OUT
IC8001
MN2DS0003APH
AV DECODER

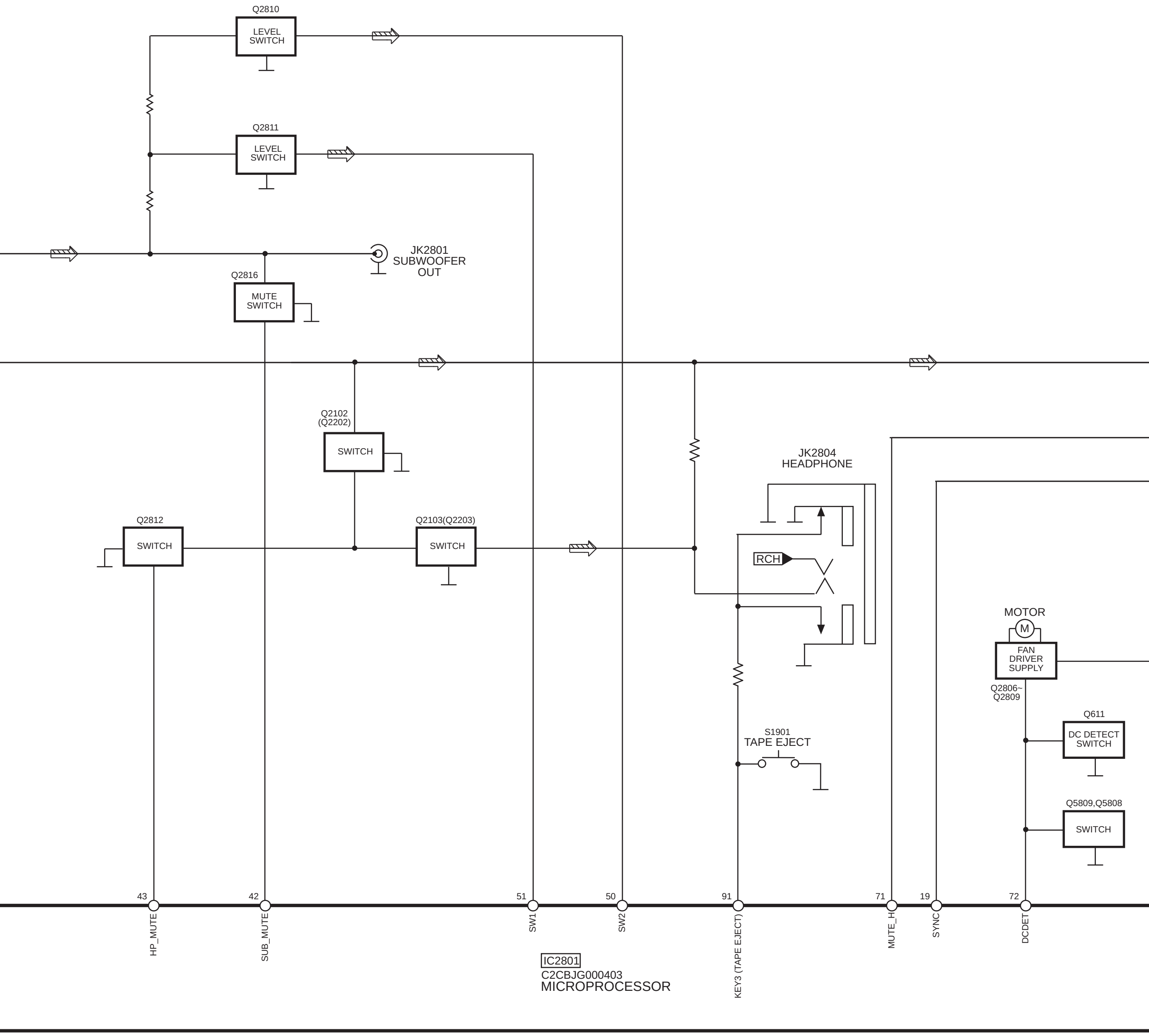

ZFLAG
7(8)
VOUTL(R)
11
ZEROR
IC8421
C0FBBK000035
A/D CONVERTER
DATA
MDI
MC
ML
SCK
BCK
LRCK
2
13
14
15
16
1
3
QR8420
AUDIO
MUTING
SWITCH
171
57
56
53
163
170
169
55
ADOUT3
P11
P12
P15
DACCK
SRCK
LRCK
P13
IC8001
MN2DS0003APH
AV DECODER
P9
P8
EXADT0~EXADT15
EXADR16~EXADR20
NEXWE
NEXOE
NEXCE
FDT0~FDT15
NRST
59
60
23~25,27,32,
33,36,37,39~42,
46,47,50,51
30,43,
31,45,
21
22
52
38
192~195,
197~200,
203,204,
206~208,
210~212
73
6
5
SCL
SDA
IC8611
C3EBGC000055
EEPROM IC
(NOT SUPPLIED)
25~18,
8~1
48,17,
16,9,10
11
28
26
29~36,
38~45
A0~A15
A16~A20
XWE
XOE
XCE
DQ0~DQ15
IC8651
RFKFMH81T160
16M FLASH ROM
XRESET
12
+B
IC8601
C0EBE0000384
VOLTAGE
DETECTING IC
+B
Q8605,
Q8606
SWITCH
IC8605
C0EBA0000031
RESET IC
R
Q8560
SWITCH
Q8550
SWITCH
+B


LCH
(DECK 2)
R/P HEAD
FILTER
IC1001
AN7326K
P/B REC AMP
22(1)
21(2)
20(3)
19(4)
18
17
16(7)
15(8)
14
13
12
10
+B
PB LIN(R)
PB L NF(R)
PB L EQ(R)
PB LOUT(R)
ALC LOW OUT
TPS
GAIN ADJ
REC
LIN(R)
REC
L OUT(R)
ALC
NOR/CRO SW
VCC
RF
RIPPLE
REJECTION
TPS
LOGIC
SWITCH
ALC
REC AMP (L)
MUTE
TPS OUT
PB/REC SW
6
9
Q1101
(Q1201)
MUTING
SWITCH
IC1000
C1AA00000612
ANALOG SWITCH
2
3
4
Q1317
BEAT PROOF
LEVEL SWITCH
Q1302
DECK
MUTING
CONT
(DECK 2)
ERASE HEAD
L1301
+B
Q1309,
Q1310,
Q1312
BIAS
SWITCH
D1301
IC971
CNB13030R2AU
PHOTO
INTERRUPTER
Q1306,Q1307
SWITCH
S971
(MODE)
S972
(HALF)
S974
(R_RECIN_H)
S975
(F_RECIN_H)
Q1304
+B
SWITCH
(REC:H)
Q1303
SWITCH
IC2802
C3EBDG000052
EEPROM
(NOT SUPPLIED)
3
4
5
6
25
24
23
90
89
78
80
E_CS
E_CLK
EDA
DECK_AD2
DECK_AD1
REC
DMT
IC2801
C2CBJG000403
MICROPROCESSOR
JOG_A
JOG_B
76
75
KEY2
KEY1
92
97
VR601
VOLUME JOG
KEY SW
S608~S617
KEY SW
S602~S607,S618


FL DISPLAY
FL601
FROM
TRANSFORMER
Q601,
Q602
FL
DRIVER
+B
15~23
25~51
2,3
64~53
4,1
DIG00,
DIG03
SEG00~SEG35
DIG01,DIG02
DIG04~DIG15
IC601
C0HBB0000039
FL DISPLAY
Q2827
REGULATOR
+B
11,52
VCC1,2
RST
CS
DATA
CLK
5
6
8
7
87
88
85
84
FL_RST
FL_CS
FL_DA
FL_CLK
IC2801
C2CBJG000403
MICROPROCESSOR
Q603
SWITCH
D611~D614
D617~D620
+B
86
LED_CONTROL
RM11
UP/DOWN MOTOR
M
4
2
OUT1
OUT2
IC11
C0GAG0000007
UP/ DOWN
MOTOR DRIVER
F_IN
R_IN
7
9
26
20
UP/DOWN F
UP/DOWN R
RM21
UP/DOWN MOTOR
M
4
2
OUT1
OUT2
IC21
C0GAG0000007
LOADING
MOTOR DRIVER
F_IN
R_IN
7
9
3
2
OP/CL_FWD
OP/CL_REV
PLUNGER
83
MOTOR
82
Q2818
PLUNGER
SWITCH
Q2817
MOTOR
SWITCH
Q1315
SWITCH
SWITCH
(MOTOR
SUPPLY)
M
Q1314,Q1316
D971
SOLENOID
CHANGE_SW
21
PLAY_SW
100
ST_SW
1
OPEN_SW
4
BOTTOM_SW
22
S5
CHANGE
S2
PLAY
S1
STOCK
S4
OPEN
S3
BOTTOM
POSITION
5
Q1
SENSOR
+B


JK2805
AV OUT
BLUE IN
GREEN IN
RED IN
VOUT_VIN
RGBCTL
FUNCSW
JK2802
VIDEO OUT
JK2802
S.VIDEO OUT
G
Y
C
2
OUT
IC2809
C1AB00001731
VIDEO
SWITCH IC
1
SW
4
IN2
6
IN1
2
OUT
IC2810
C1AB00001731
VIDEO
SWITCH IC
1
SW
6
IN1
4
IN2
IC2808
C9ZB00000431
VIDEO IC
22 CbOUT
21 CbSAG
25 CYOUT
24 CYSAG
33 COUT
19 CrOUT
18 CrSAG
31 VOUT
30 VSAG
28 YOUT
27 YSAG
2 CIN
6 YIN
12 CYIN
14 CBIN
16 CRIN
15 MUTE2
C_OUT
MIX_L(R)
Y_OUT
Y/PY/G
CB/PB/B
CR/PR/R
JK2803
OPTICAL
AUDIODIGITAL
OP_CPU-CLK
OP_CPU-STAT
OP_CPU-CMD
ZFLAG
D
TO DVD
BLOCK
+B
Q2821
SWITCH
+B
Q2819
SWITCH
Q2822
SWITCH
D2813
Q2820
SWITCH
+B
Q2823
SWITCH
Q2805
SWITCH
Q2826
MUTING
SWITCH
IC2803,
IC2804
C0DBAJG00002
REGULATOR
IC2805~
IC2807
C0DBEFG00003
C0DBZHG00016
C0DBZHE00011
REGULATOR
46 VMIX_CTL
68 DVDPCONT
47 WIDE1
44 DVD_MUTE
45 RGBH
37 OP_CPU_CLK
36 OP_CPU_STAT
35 OP_CPU_CMD
IC2801
C2CBJG000403
MICROPROCESSOR


4(3)
1(2)
12(13)
GOUT1 (GOUT2)
FVN1 (FVN2)
D1 (D2)
6(7)
A1(A2)
IC2812
C1BB00000822
ASP IC
C1 (C2)
B1 (B2)
OUT1 (OUT2)
DATA
CLK
10(11)
8(9)
24(23)
19
20
JK2801
AUX
IC2814
K1A4558FEL
OP AMP
IC2813
C0AABB000085
OP AMP
Q2101 (Q2201)
SWITCH
D2101 (D2201)
TUNER PACK
X2803
8
9
XIN
XOUT
IC2811
C1BB00000715
RDS
2
MPXIN
RDDA
RDCL
14
15
48
49
29
30
27
28
74
73
ASP_DATA
ASP_CLK
TU_SCL
TU_SDA
TU_SD
TU_ST/DO
RDS_DATA
RDS_CLK
IC2801
C2CBJG000403
MICROPROCESSOR
XOUT
XIN
XCIN
XCOUT
RMT
/RESET
13
15
10
11
18
12
X2802
X2801
Z602
REMOTE SENSOR
Q2803
RESET SWITCH

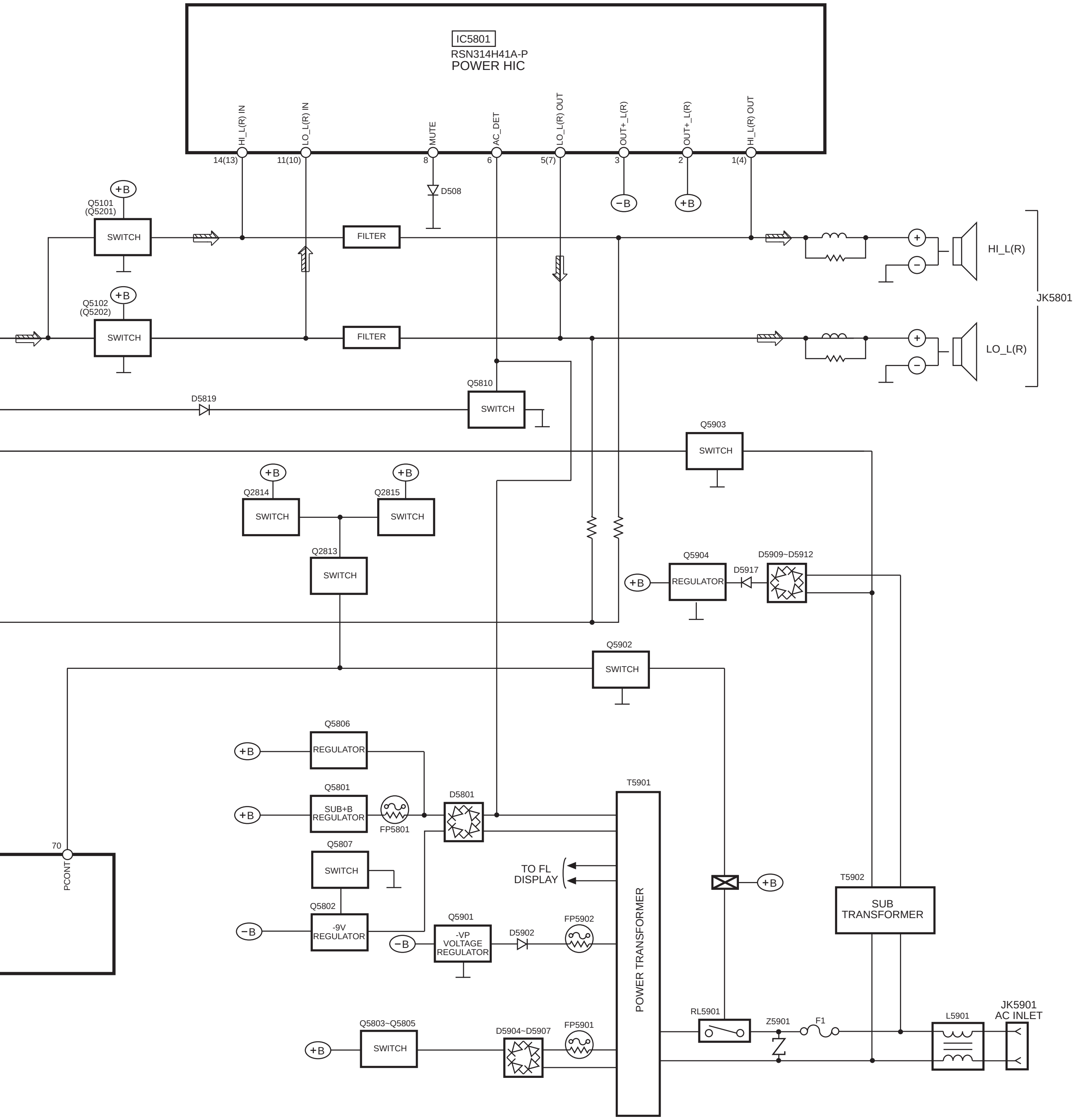

Q2810
LEVEL SWITCH
Q2811
LEVEL SWITCH
JK2801
SUBWOOFER
OUT
Q2816
MUTE SWITCH
Q2102
(Q2202)
SWITCH
JK2804
HEADPHONE
Q2812
SWITCH
Q2103(Q2203)
SWITCH
RCH
MOTOR
M
FAN DRIVER SUPPLY
Q2806~
Q2809
Q611
DC DETECT SWITCH
S1901
TAPE EJECT
Q5809,Q5808
SWITCH
43
42
51
50
91
71
19
72
HP_MUTE
SUB_MUTE
SW1
SW2
KEY3 (TAPE EJECT)
MUTE_H
SYNC
DCDET
IC2801
C2CBJG000403
MICROPROCESSOR

SIGNAL LINES

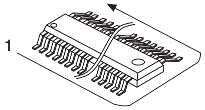
⇨ : MAIN SIGNAL LINE
➡ : FM/AM SIGNAL LINE
⇨ : CD-DA SIGNAL LINE
⇨ : AUX SIGNAL LINE
⇨ : TAPE PLAYBACK SIGNAL LINE
⇨ : TAPE RECORD SIGNAL LINE
⇨ : DVD (AUDIO) SIGNAL LINE
⇨ : DVD (VIDEO) SIGNAL LINE

( ) Indicates Pin No. of Right Channel

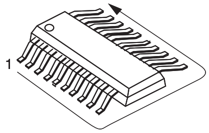
Note : Signal Lines are applicable to the Left Channel only.


IC5801
RSN314H41A-P
POWER HIC
HI_L(R) IN
LO_L(R) IN
MUTE
AC_DET
LO_L(R) OUT
OUT+_L(R)
OUT+_L(R)
HI_L(R) OUT
14(13)
11(10)
8
6
5(7)
3
2
1(4)
D508
−B
+B
+B
Q5101
(Q5201)
SWITCH
FILTER
HI_L(R)
JK5801
+B
Q5102
(Q5202)
SWITCH
FILTER
LO_L(R)
Q5810
D5819
SWITCH
Q5903
SWITCH
+B
+B
Q2814
SWITCH
Q2815
SWITCH
Q2813
SWITCH
Q5904
D5909~D5912
D5917
+B
REGULATOR
Q5902
SWITCH
Q5806
+B
REGULATOR
Q5801
+B
SUB+B REGULATOR
FP5801
D5801
T5901
70
PCONT
Q5807
SWITCH
TO FL DISPLAY
+B
T5902
SUB TRANSFORMER
Q5802
−B
-9V REGULATOR
Q5901
−B
-VP VOLTAGE REGULATOR
D5902
FP5902
POWER TRANSFORMER
RL5901
Z5901
F1
L5901
JK5901
AC INLET
Q5803~Q5805
+B
SWITCH
D5904~D5907
FP5901

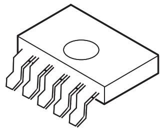
AN7326K (26P)



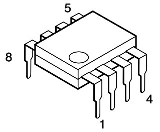
C1BB00000715 (16P)
KIA4558FEL (8P)
C0GBF0000004 (16P)
C0FBBK000035 (16P)
C9ZB00000431 (34P)



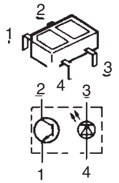
C0DBZHE00011



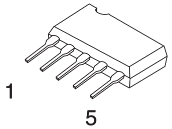
C0AABB000085



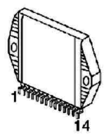
CNB13030R2AU



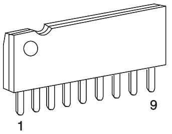
C1AA00000612



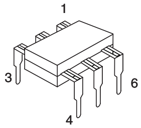
RSN314H41A-P



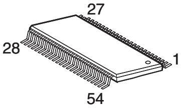
C0GAG0000007



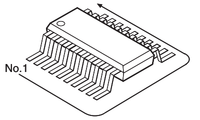
C1AB00001731



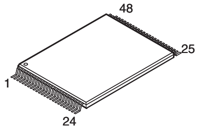
C3ABPG000067



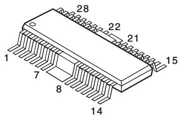
C1BB00000822 (40P)



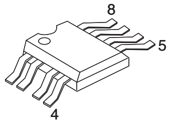
C3FBMD000134



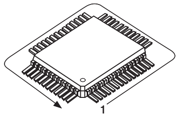
C0GBG0000044


28
22
21
1
15
7
8
14

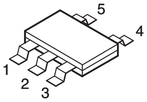
C3EBDG000052



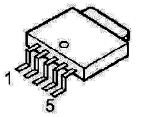
C2CBJG000403 (100P)
MN2DS0003APH (256P)
C0HBB0000039 (64P)



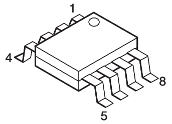
C0JBCA000066
C0EBE0000384
C0EBA0000031



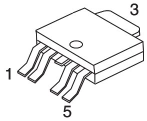
C0DBAJG00002



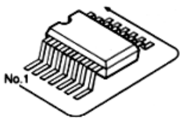
C0CBCBD00018



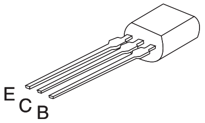
C0DBEFG00003
C0DBZHG00016



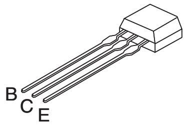
C3EBGC000044 (8P)



2SD0592ARA
2SD09650RA
KTA12710YTA
KTA1504GRTA
KTC32030YTA
KTC3205YTA

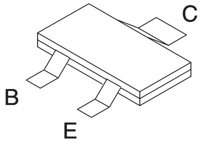


B1AAGC000006

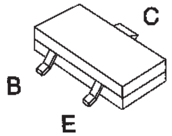


B1GBCFGH0001
2SB09700RL
2SD1819A0L
UNR511V00L
UNR221200L
UNR211500L

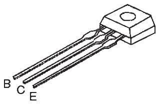
KRC107STA
B1ABGC000005
UNR521100L
B1GDCFJJ0002
B1ABCF000011



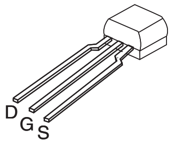
KTC3875GRTA
KRC101STA
KRC102STA
KRC103STA
2SD2114K1V
B1GDCFGH0002
2SB1219AHL



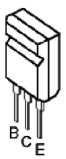
KTC3199GRTA
B1AAGC000007
B1ACCF000039



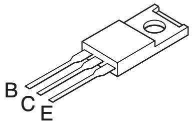
B1CABA000002



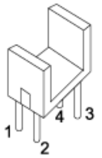
2SD21370PA



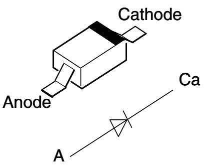
KTA1046
KTC2026



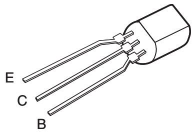
B3NAA0000068



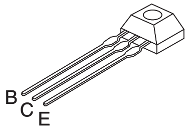
1SS380TE-17
B0ACCK000005
B0BC7R500001
B0BC5R600003


Cathode
Anode
Ca
A

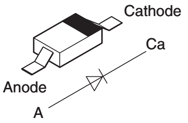
2SB0621AHA



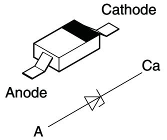
KRA102MTA
KRC102MTA
KRA110MTA



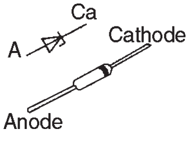
MA2S11100L


Cathode
Ca
Anode
A

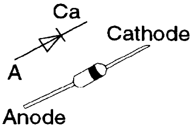
UDZSTE178R2B
UDZSTE176R2B


Cathode
Ca
Anode
A

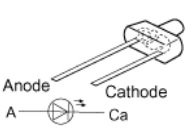
B0BA9R600002
B0BC9R000008
B0BA6R600008
B0BA03100002


Ca
A
Cathode
Anode

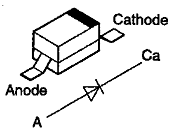
B0AACK000004
MA2C16500E


Ca
Cathode
A
Anode

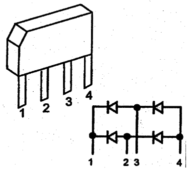
B3AAA0000583


Anode
Cathode
A
Ca

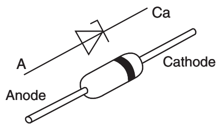
B0JCPC000004


Cathode
Ca
Anode
A

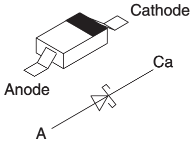
B0FBAM000012



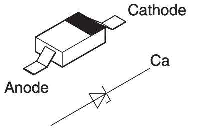
MTZJ15BTA
MTZJ13BTA


Ca
A
Cathode
Anode

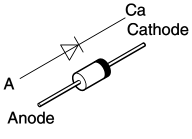
MA2J72800L□


Cathode
Ca
Anode
A

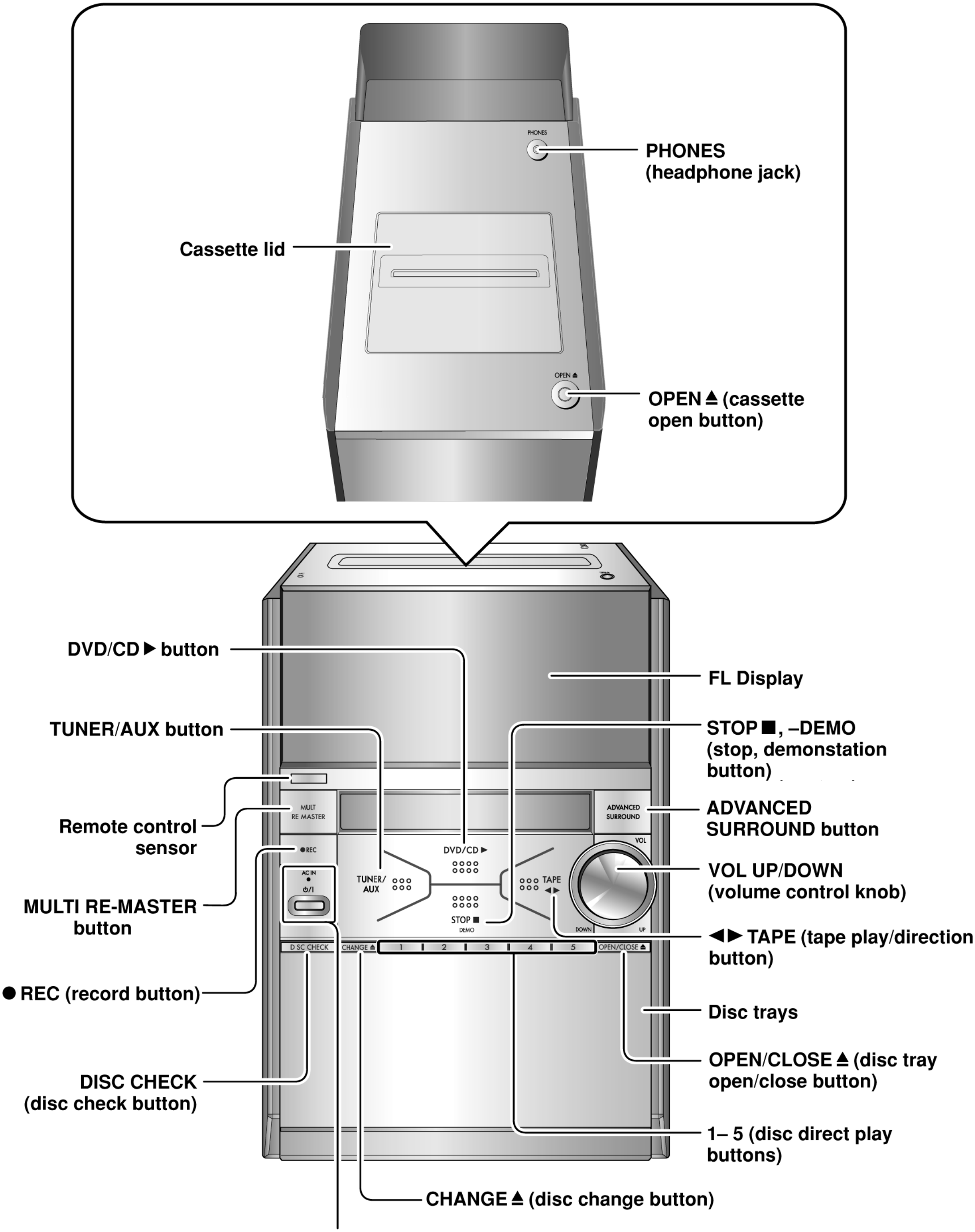
B0BC8R100004


Cathode
Ca
Anode

B0EAKM000117


Ca
Cathode
A
Anode

Main unit


PHONES (headphone jack)
Cassette lid
OPEN ≜ (cassette open button)
DVD/CD ▶ button
FL Display
TUNER/AUX button
STOP ■, –DEMO (stop, demonstation button)
Remote control sensor
ADVANCED SURROUND button
MULTI RE-MASTER button
VOL UP/DOWN (volume control knob)
◀▶ TAPE (tape play/direction button)
● REC (record button)
Disc trays
DISC CHECK (disc check button)
OPEN/CLOSE ≜ (disc tray open/close button)
1– 5 (disc direct play buttons)
CHANGE ≜ (disc change button)
PHONES
OPEN ≜
MULTI RE MASTER
● REC
AC IN
⏻/I
TUNER/ AUX
DVD/CD ▶
STOP ■
DEMO
TAPE
ADVANCED SURROUND
VOL
DOWN
UP
DISC CHECK
CHANGE ≜
1
2
3
4
5
OPEN/CLOSE ≜

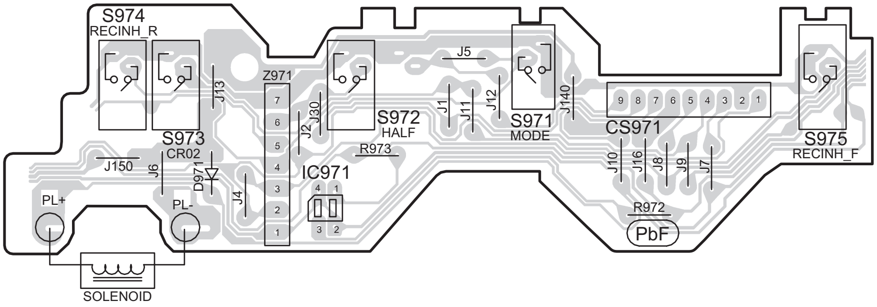
AC IN (AC supply indicator)
This indicator lights when the unit is connected to the AC mains supply.

⏻/| (standby/on switch)
Press to switch the unit from on to standby mode or vice versa.
In standby mode, the unit is still consuming a small amount of power.

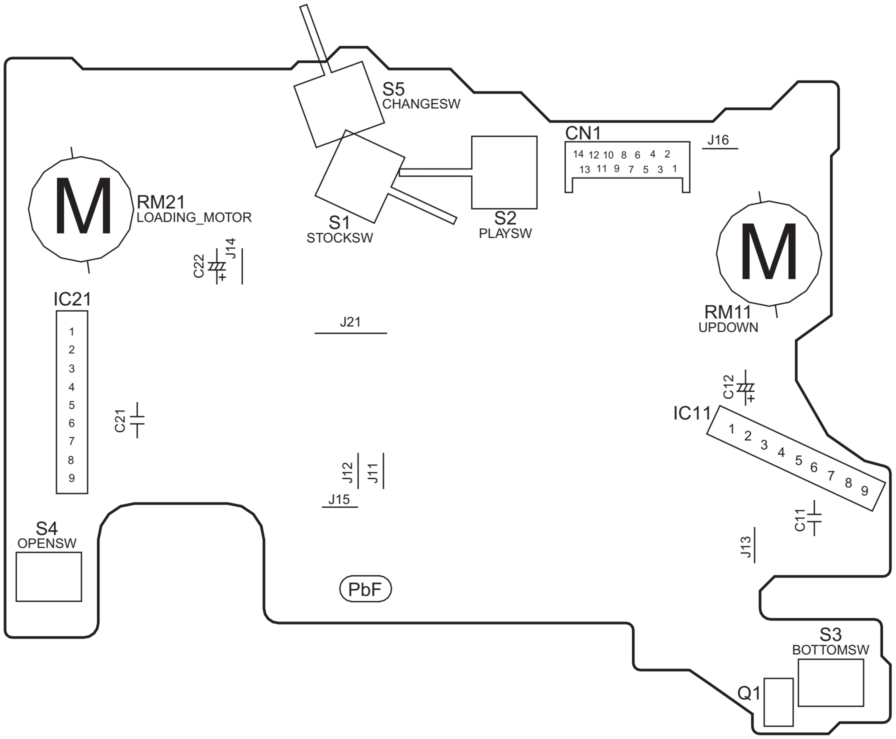
A B C D E F G

1 2 3 4 5 6 7 8 9

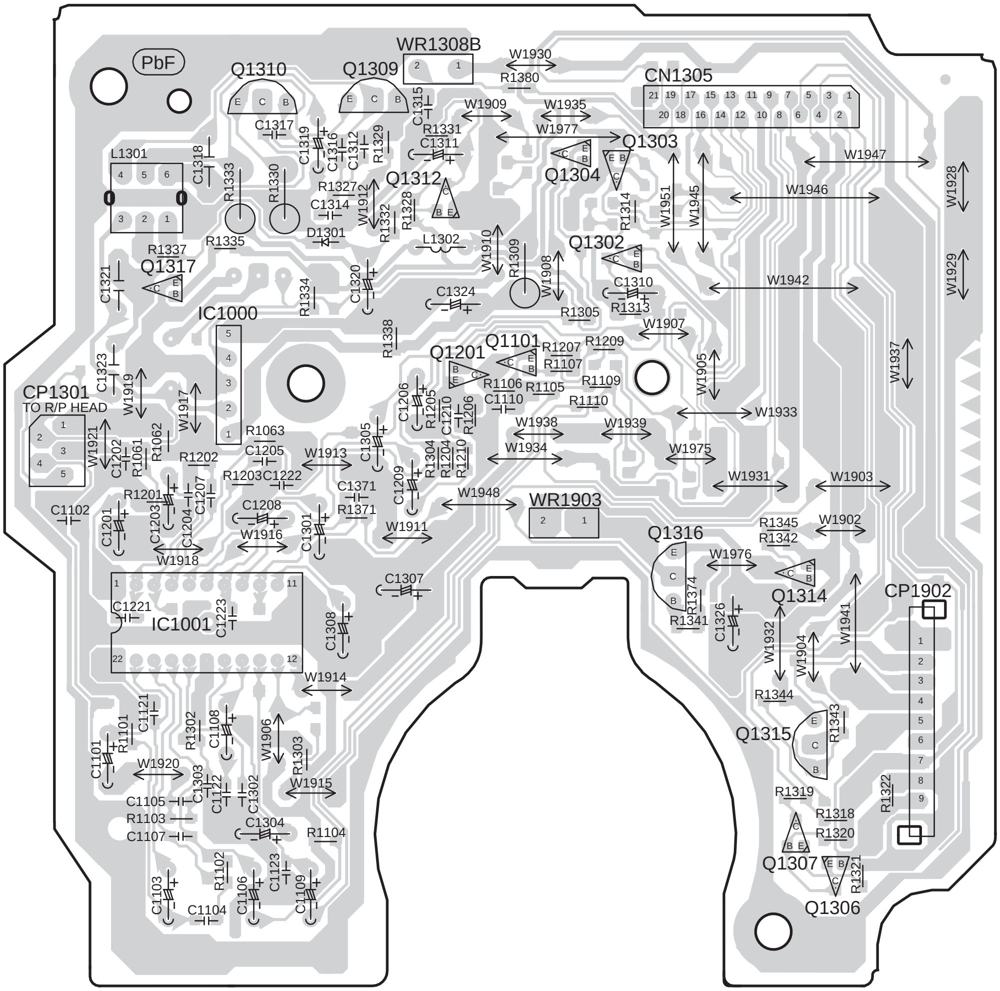
J DECK MECHANISM P.C.B (REPX0321C)


S974
RECINH_R
J13
Z971
7
6
5
4
3
2
1
J30
J2
S972
HALF
J5
J1
J11
J12
S971
MODE
J140
9 8 7 6 5 4 3 2 1
CS971
S975
RECINH_F
S973
CR02
J150
J6
D971
J4
IC971
4 1
3 2
R973
J10
J16
J8
J9
J7
R972
PbF
PL+
PL-
SOLENOID

K CD LOADING P.C.B (REP3569A)


S5
CHANGESW
CN1
14 12 10 8 6 4 2
13 11 9 7 5 3 1
J16
M
RM21
LOADING_MOTOR
S1
STOCKSW
S2
PLAYSW
C22
J14
M
RM11
UPDOWN
IC21
1
2
3
4
5
6
7
8
9
J21
C12
IC11
1 2 3 4 5 6 7 8 9
C21
J12
J11
J15
C11
J13
S4
OPENSW
PbF
S3
BOTTOMSW
Q1

H DECK P.C.B (REPX0411A)


A
B
C
D
E
F
G
1
2
3
4
5
6
7
PbF
WR1308B
W1930
R1380
CN1305
Q1310
Q1309
C1317
C1319
C1316
C1312
R1329
C1315
R1331
C1311
W1909
W1935
W1977
Q1303
Q1304
W1947
W1946
W1928
L1301
C1318
R1333
R1330
R1327
C1314
D1301
W1912
R1332
R1328
Q1312
R1314
W1951
W1945
R1335
R1337
Q1317
L1302
W1910
R1309
Q1302
C1321
C1320
R1334
C1324
W1908
C1310
R1313
W1942
W1929
IC1000
R1305
W1907
R1338
Q1201
Q1101
R1207
R1209
R1107
R1106
R1105
R1109
C1110
R1110
W1937
W1905
W1933
CP1301
TO R/P HEAD
C1323
W1919
W1917
W1921
C1202
R1061
R1062
R1063
C1206
R1205
C1210
R1206
C1205
C1305
R1304
R1204
R1210
W1938
W1939
W1934
W1975
W1913
R1202
R1203
C1222
C1209
W1931
W1903
R1201
C1371
R1371
W1948
WR1903
C1102
C1201
C1203
C1204
C1207
C1208
W1916
C1301
W1911
R1345
R1342
W1902
Q1316
W1976
W1918
C1307
Q1314
CP1902
C1221
IC1001
C1223
C1308
R1374
R1341
C1326
W1932
W1904
W1941
W1914
R1344
C1121
R1101
R1302
C1108
W1906
R1303
Q1315
R1343
C1101
W1920
C1303
C1122
C1302
W1915
R1319
R1322
C1105
R1103
C1107
C1304
R1104
R1318
R1320
Q1307
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C1103
C1104
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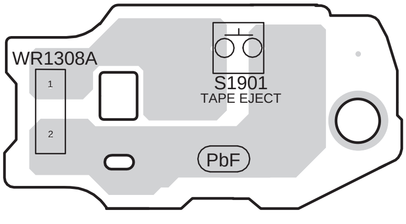
C1106
C1123
C1109

I TAPE EJECT P.C.B (REPX0411A)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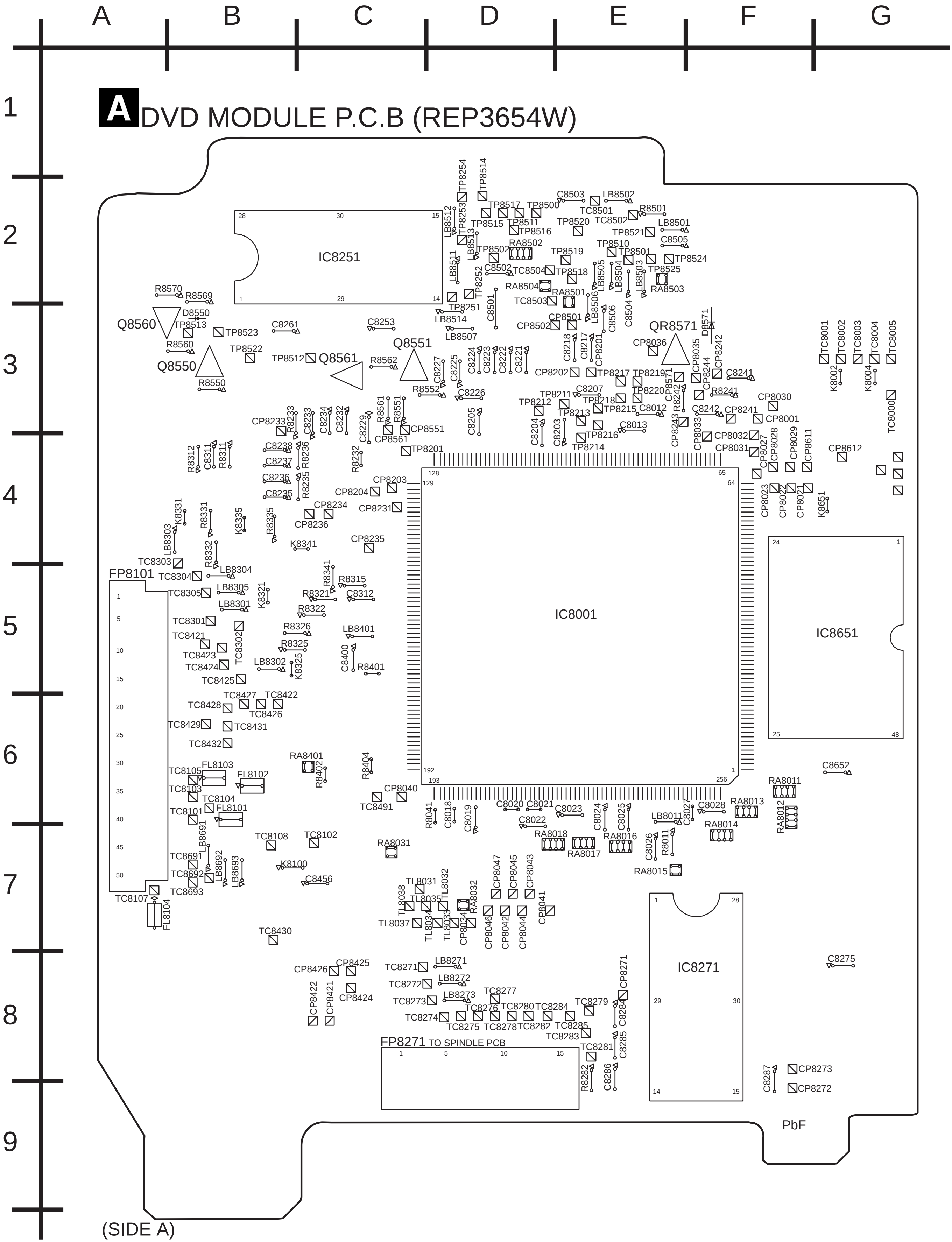
9
WR1308A
S1901
TAPE EJECT
PbF

A DVD MODULE P.C.B (REP3654W)


A
B
C
D
E
F
G
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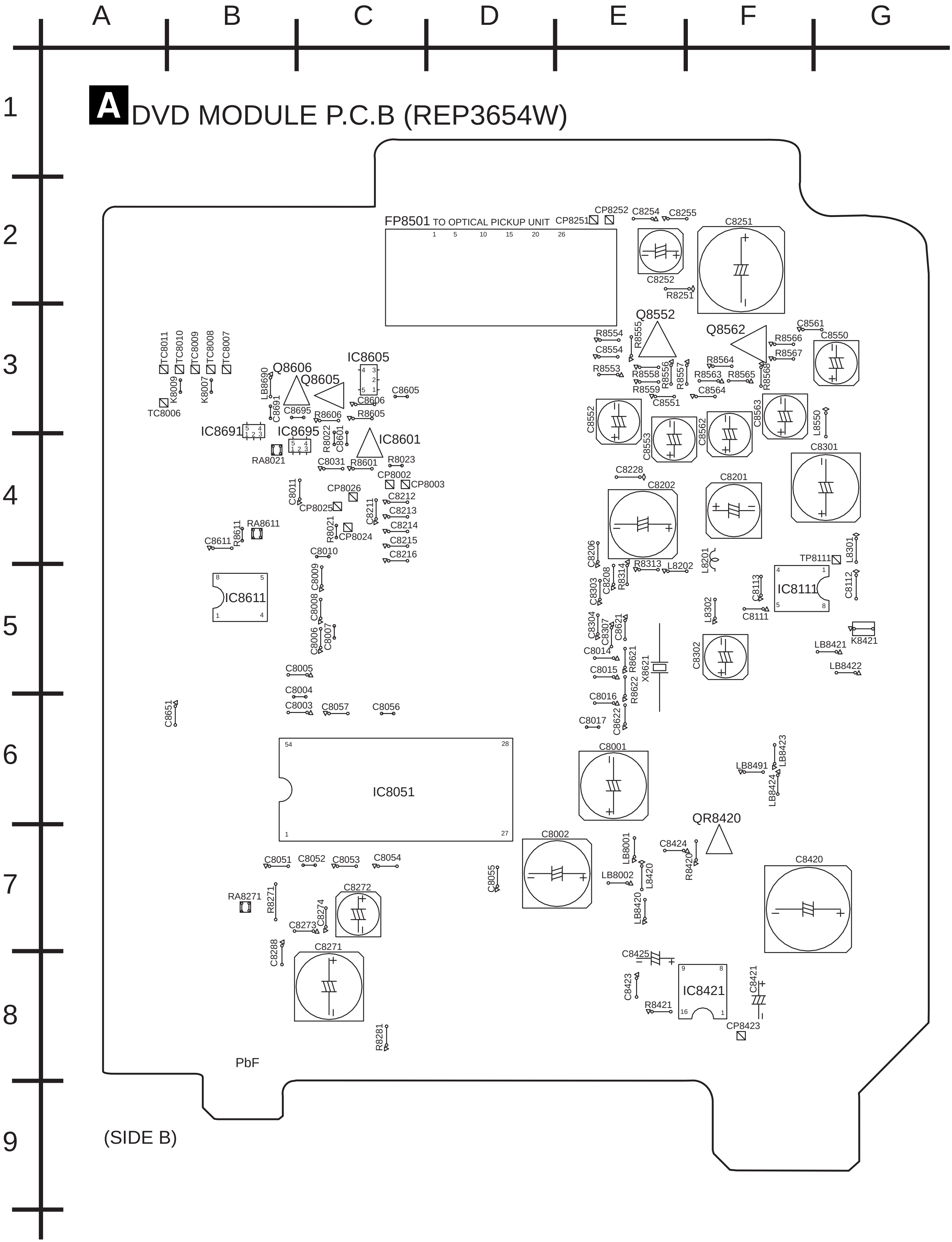
2
3
4
5
6
7
8
9
IC8251
28
30
15
1
29
14
TP8254
TP8514
TP8253
LB8512
LB8513
TP8517
TP8500
TP8515
TP8511
TP8516
C8503
LB8502
TC8501
TC8502
R8501
LB8501
TP8520
TP8521
C8505
TP8502
RA8502
TP8510
TP8501
TP8519
TP8524
LB8511
TP8252
C8502
TC8504
TP8518
LB8505
LB8504
LB8503
TP8525
RA8504
RA8501
RA8503
TC8503
LB8506
C8501
TP8251
LB8514
LB8507
CP8501
CP8502
C8506
C8504
D8571
QR8571
R8570
R8569
D8550
Q8560
TP8513
TP8523
C8261
C8253
R8560
TP8522
Q8550
TP8512
Q8561
R8562
Q8551
R8550
C8218
C8217
CP8201
CP8036
CP8035
CP8242
C8227
C8225
C8224
C8223
C8222
C8221
CP8202
TP8217
TP8219
CP8571
CP8244
C8241
R8552
C8226
TP8211
C8207
TP8220
R8242
R8241
TP8212
TP8218
TP8215
C8012
C8242
CP8241
CP8030
TP8213
CP8243
CP8033
CP8001
C8205
C8204
C8203
TP8216
C8013
CP8032
CP8027
CP8028
CP8029
CP8611
TP8214
CP8031
CP8612
CP8233
R8233
C8233
C8234
C8232
C8229
R8561
R8551
CP8551
CP8561
TP8201
R8312
C8311
R8311
C8238
C8237
R8236
C8236
R8235
C8235
R8232
CP8203
CP8204
CP8231
CP8234
CP8236
128
65
129
64
IC8001
192
1
193
256
CP8023
CP8022
CP8021
K8651
K8331
R8331
K8335
R8335
LB8303
K8341
CP8235
R8332
TC8303
TC8304
LB8304
FP8101
1
5
10
15
20
25
30
35
40
45
50
TC8305
LB8305
R8341
R8315
R8321
C8312
LB8301
K8321
R8322
TC8301
TC8302
TC8421
TC8423
TC8424
TC8425
R8326
R8325
LB8302
K8325
LB8401
C8400
R8401
TC8427
TC8422
TC8426
TC8428
TC8429
TC8431
TC8432
RA8401
R8402
R8404
TC8105
FL8103
FL8102
TC8103
TC8104
TC8101
FL8101
CP8040
TC8491
R8041
C8018
C8019
C8020
C8021
C8022
C8023
C8024
C8025
LB8011
C8027
C8028
RA8013
RA8012
RA8011
RA8014
RA8018
RA8017
RA8016
C8026
R8011
RA8015
TC8108
TC8102
RA8031
LB8691
TC8691
TC8692
TC8693
LB8692
LB8693
K8100
C8456
TC8107
FL8104
TL8031
TL8032
TL8038
TL8035
TL8034
TL8033
TL8037
CP8034
RA8032
CP8047
CP8045
CP8043
CP8046
CP8042
CP8044
CP8041
TC8430
IC8651
24
1
25
48
C8652
TC8001
TC8002
TC8003
TC8004
TC8005
K8002
K8004
TC8000
IC8271
1
28
29
30
14
15
CP8426
CP8425
CP8422
CP8421
CP8424
TC8271
LB8271
TC8272
LB8272
TC8273
LB8273
TC8277
TC8274
TC8276
TC8280
TC8284
TC8279
CP8271
TC8275
TC8278
TC8282
TC8285
TC8283
C8284
TC8281
C8285
R8282
C8286
C8287
CP8273
CP8272
C8275
FP8271 TO SPINDLE PCB
1
5
10
15
PbF

(SIDE A)

A DVD MODULE P.C.B (REP3654W)


A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
FP8501 TO OPTICAL PICKUP UNIT
1
5
10
15
20
26
CP8251
CP8252
C8254
C8255
C8251
C8252
R8251
Q8552
Q8562
R8554
R8555
C8554
R8553
R8558
R8556
R8557
R8559
C8551
R8564
R8563
R8565
R8568
C8564
C8561
R8566
R8567
C8550
C8552
C8553
C8562
C8563
L8550
C8301
TC8011
TC8010
TC8009
TC8008
TC8007
K8009
K8007
TC8006
LB8690
C8691
Q8606
Q8605
IC8605
C8605
C8606
C8695
R8606
R8605
IC8691
IC8695
RA8021
R8022
C8601
IC8601
C8031
R8601
R8023
CP8002
CP8003
CP8026
C8011
CP8025
C8212
C8213
C8211
C8214
R8021
CP8024
C8215
C8216
RA8611
R8611
C8611
C8010
C8009
IC8611
C8008
C8006
C8007
C8228
C8202
C8201
C8206
C8208
R8314
R8313
L8202
L8201
TP8111
L8301
C8303
C8113
IC8111
C8112
L8302
C8111
C8304
C8307
C8621
C8014
R8621
X8621
C8302
K8421
LB8421
LB8422
C8015
C8005
C8004
C8003
C8057
C8056
R8622
C8016
C8017
C8622
C8651
IC8051
54
28
1
27
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LB8491
LB8423
LB8424
QR8420
C8002
LB8001
C8424
R8420
C8051
C8052
C8053
C8054
C8055
LB8002
L8420
C8420
RA8271
R8271
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C8273
LB8420
C8288
C8271
C8425
IC8421
9
8
16
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C8421
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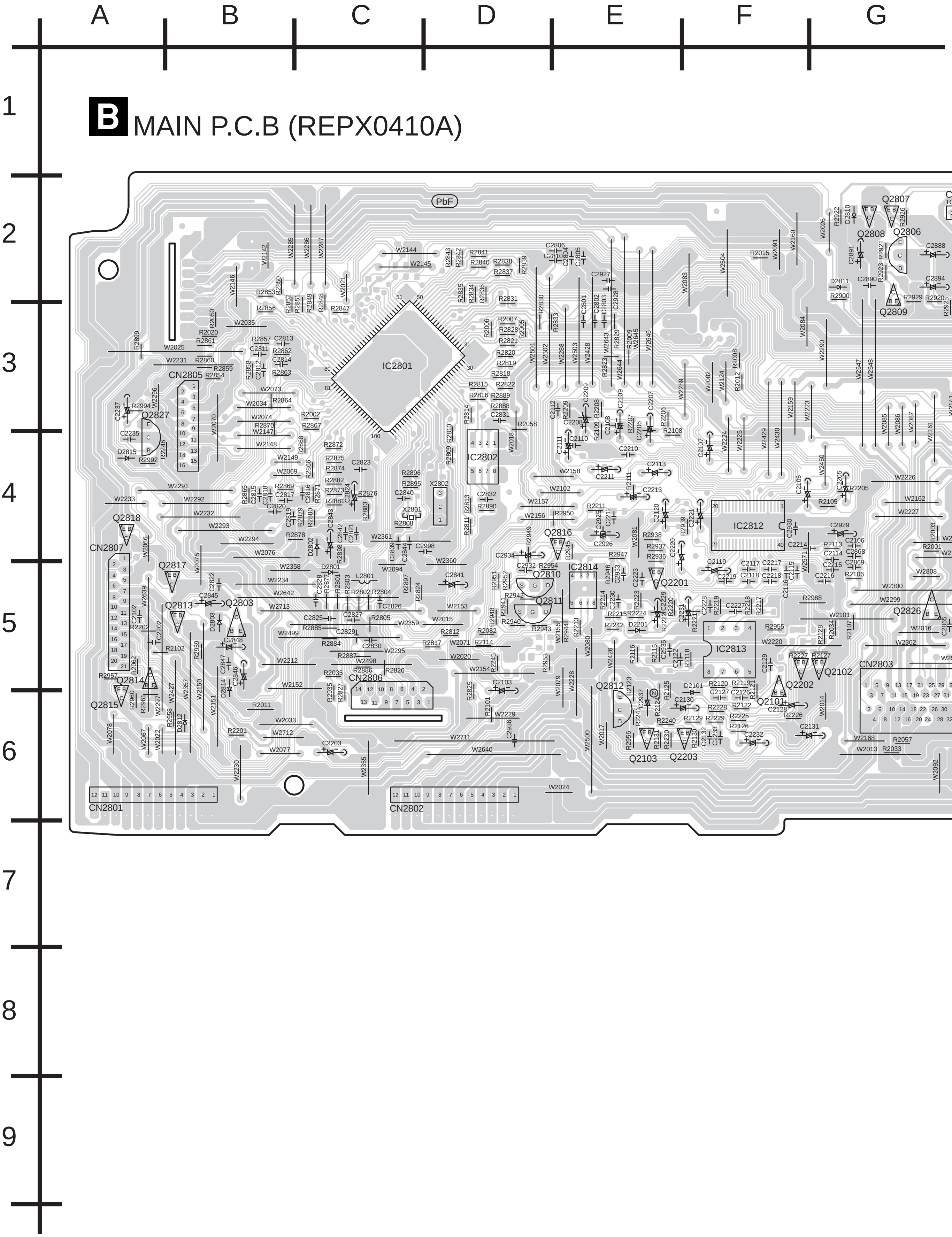
R8421
CP8423
R8281
PbF

(SIDE B)

B MAIN P.C.B (REPX0410A)


A
B
C
D
E
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G
1
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3
4
5
6
7
8
9
PbF
IC2801
IC2802
IC2812
IC2813
IC2814
CN2801
CN2802
CN2803
CN2805
CN2806
CN2807
X2801
X2802
L2801
Q2101
Q2102
Q2103
Q2201
Q2202
Q2203
Q2803
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Q2812
Q2813
Q2814
Q2815
Q2816
Q2817
Q2818
Q2826
Q2827
D2101
D2201
D2801
D2802
D2803
D2810
D2811
D2812
D2814
D2815
W2025
W2035
W2144
W2145
W2146
W2142
W2285
W2286
W2287
W2021
W2231
W2073
W2034
W2074
W2147
W2148
W2149
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W2291
W2292
W2293
W2294
W2233
W2232
W2076
W2358
W2234
W2642
W2713
W2499
W2212
W2152
W2033
W2712
W2077
W2361
W2094
W2360
W2153
W2015
W2359
W2295
W2498
W2071
W2020
W2154
W2229
W2711
W2640
W2024
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W2157
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W2160
W2026
W2084
W2290
W2647
W2648
W2226
W2162
W2227
W2808
W2300
W2299
W2101
W2016
W2362
W2220
W2168
W2013
W2092
CN2801: 12 11 10 9 8 7 6 5 4 3 2 1
CN2802: 12 11 10 9 8 7 6 5 4 3 2 1
R2899
R2020
R2050
R2861
R2860
R2859
R2854
R2853
R2856
R2857
R2862
R2863
R2858
R2864
R2870
R2002
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R2868
R2872
R2875
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R2882
R2873
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R2876
R2883
R2869
R2866
R2871
R2865
R2879
R2880
R2878
R2898
R2877
R2801
R2803
R2802
R2804
R2805
R2885
R2884
R2887
R2886
R2826
R2035
R2011
R2201
R2102
R2202
R2062
R2957
R2960
R2961
R2958
R2959
R2994
R2992
R2246
C2237
C2235
C2811
C2812
C2813
C2814
C2815
C2816
C2817
C2818
C2819
C2820
C2821
C2822
C2823
C2824
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C2826
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C2828
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C2842
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C2848
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C2202
C2203
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C2832
C2806
C2810
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C2805
C2927
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C2802
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R2838
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R2839
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R2831
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R2007
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R2822
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R2888
R2005
R2814
R2058
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R2809
R2896
R2895
R2808
R2813
R2890
R2811
R2897
R2824
R2812
R2817
R2082
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R2945
R2950
R2953
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C2926
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C2212
R2946
C2933
R2947
R2214
C2230
R2215
R2224
R2242
R2213
R2944
W2155
R2112
R2209
C2208
C2209
R2208
C2110
C2111
R2109
C2108
R2107
C2109
C2206
C2207
R2206
R2108
C2210
C2211
R2111
C2113
C2213
C2120
R2939
C2221
C2220
R2938
R2937
R2936
C2223
R2223
R2222
C2229
R2220
R2231
R2221
C2228
R2219
C2227
R2218
R2217
R2955
R2116
R2115
C2935
C2122
R2118
C2129
R2123
C2937
R2124
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R2125
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R2120
C2127
R2119
C2126
R2121
R2122
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R2126
R2240
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R2131
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C2233
C2232
R2956
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C2217
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C2215
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C2107
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C2214
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C2106
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C2869
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R2001
R2003
R2988
R2107
R2034
R2128
R2057
R2033
C2930
C2929
R2015
R2012
R2008
R2922
R2926
R2921
R2923
C2891
C2890
C2888
C2894
R2900
R2929
R2920
R2928
W2018
W2079
W2228
W2080
W2426
W2017
W2500
W2014
W2355
W2230
W2078
W2067
W2022
W2297
W2427
W2357
W2150
W2151
W2070
W2075
W2639
W2066
W2296
W2501
W2502
W2288
W2503
W2428
W2643
W2644
W2645
W2646
R2823
R2829
R2009
W2289
W2082
W2124
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W2223
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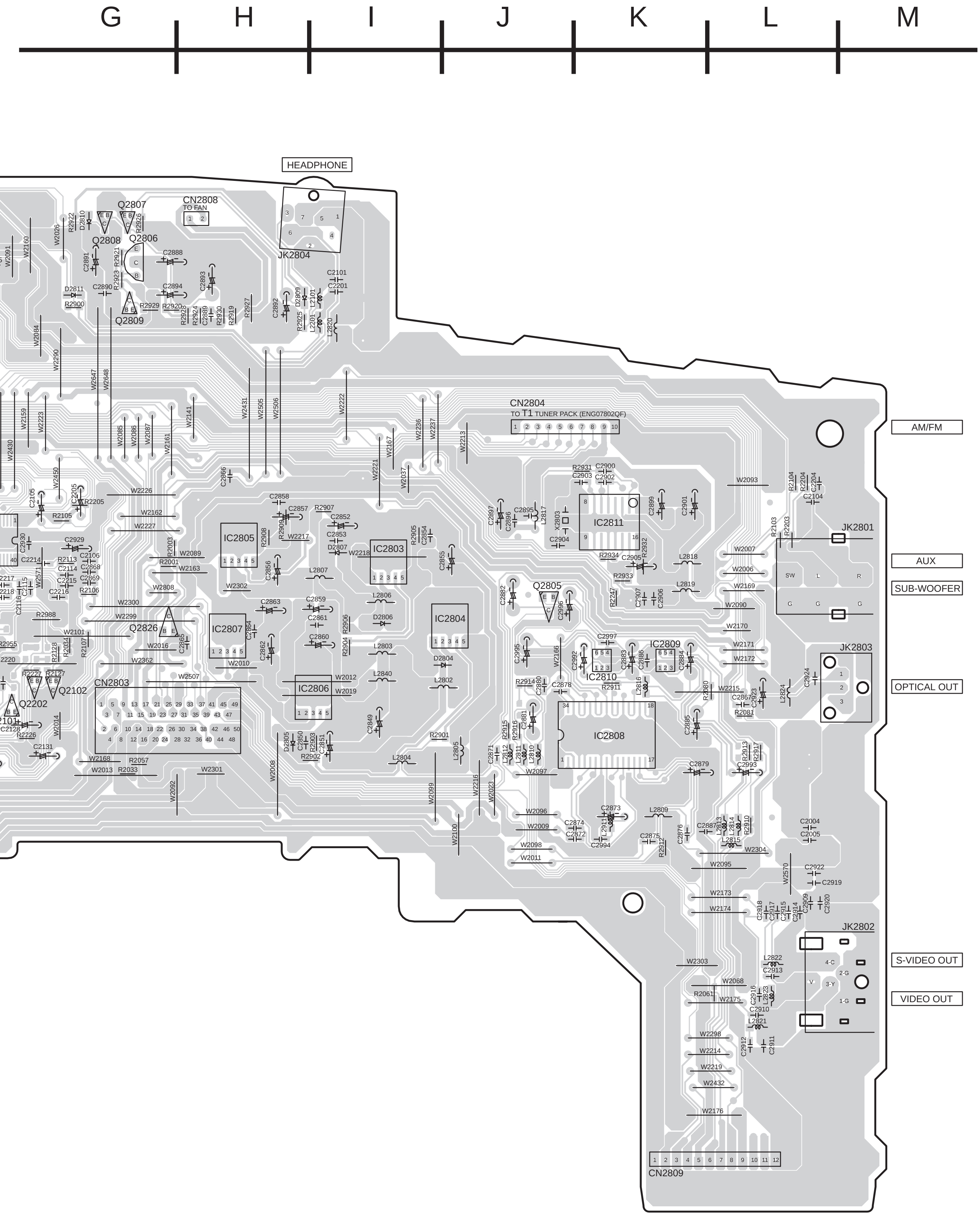
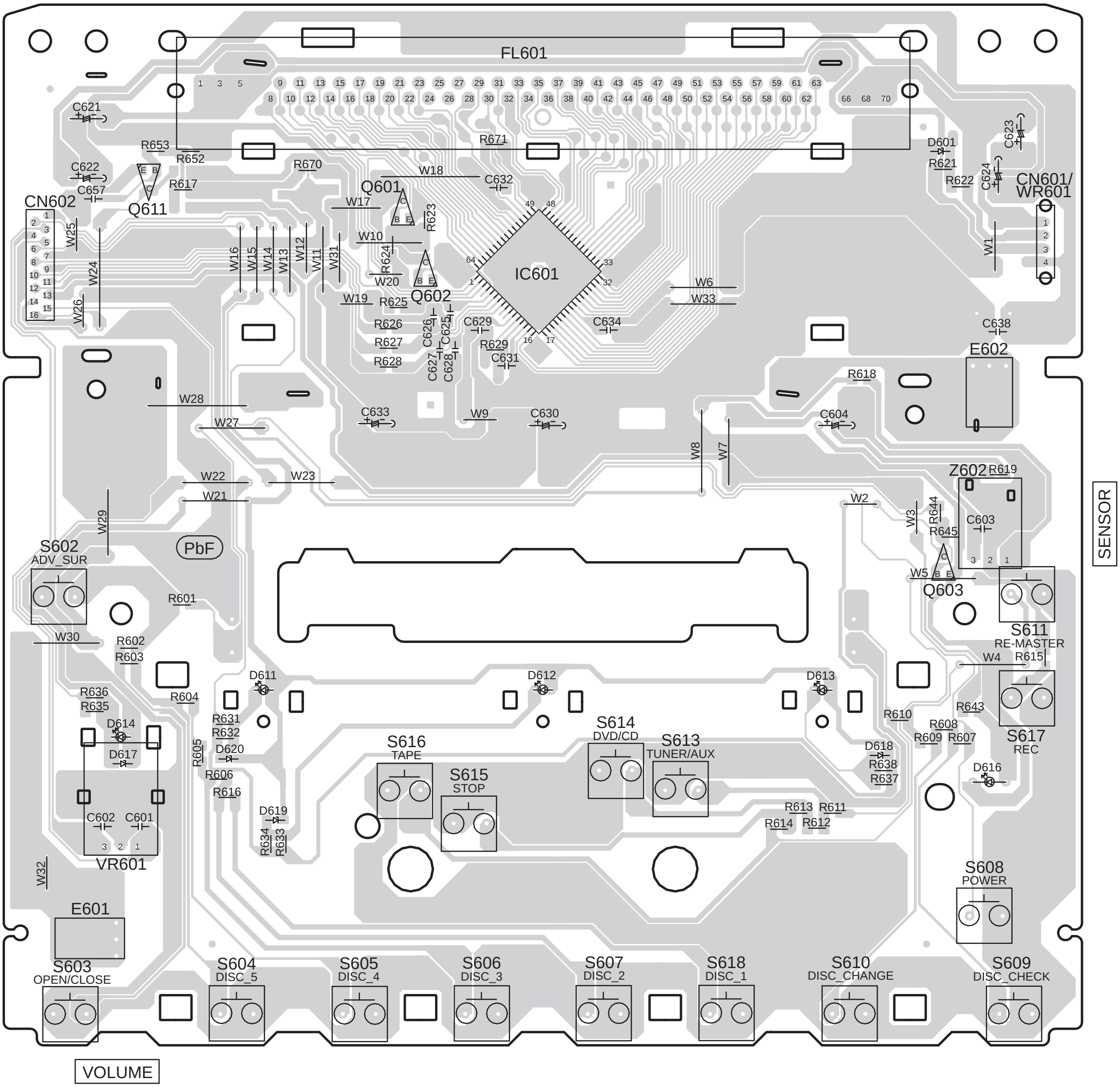
W2086
W2087
W2161


G
H
I
J
K
L
M
HEADPHONE
JK2804
CN2808
TO FAN
Q2807
Q2808
Q2806
Q2809
Q2805
Q2826
Q2202
Q2102
CN2804
TO T1 TUNER PACK (ENG07802QF)
IC2805
IC2803
IC2804
IC2807
IC2806
IC2811
IC2810
IC2809
IC2808
CN2803
CN2809
JK2801
JK2803
JK2802
AM/FM
AUX
SUB-WOOFER
OPTICAL OUT
S-VIDEO OUT
VIDEO OUT
SW
L
R
G
X2803
W2093
W2007
W2006
W2169
W2090
W2170
W2171
W2172
W2215
W2304
W2095
W2173
W2174
W2303
W2068
W2175
W2298
W2214
W2219
W2432
W2176
W2097
W2096
W2009
W2098
W2011
W2226
W2162
W2227
W2089
W2163
W2217
W2218
W2302
W2808
W2300
W2299
W2101
W2016
W2362
W2010
W2507
W2012
W2019
W2168
W2013
W2301
L2818
L2819
L2809
L2807
L2806
L2803
L2840
L2802
L2804
L2805
L2822
L2821
L2815
D2806
D2807
D2804
D2805

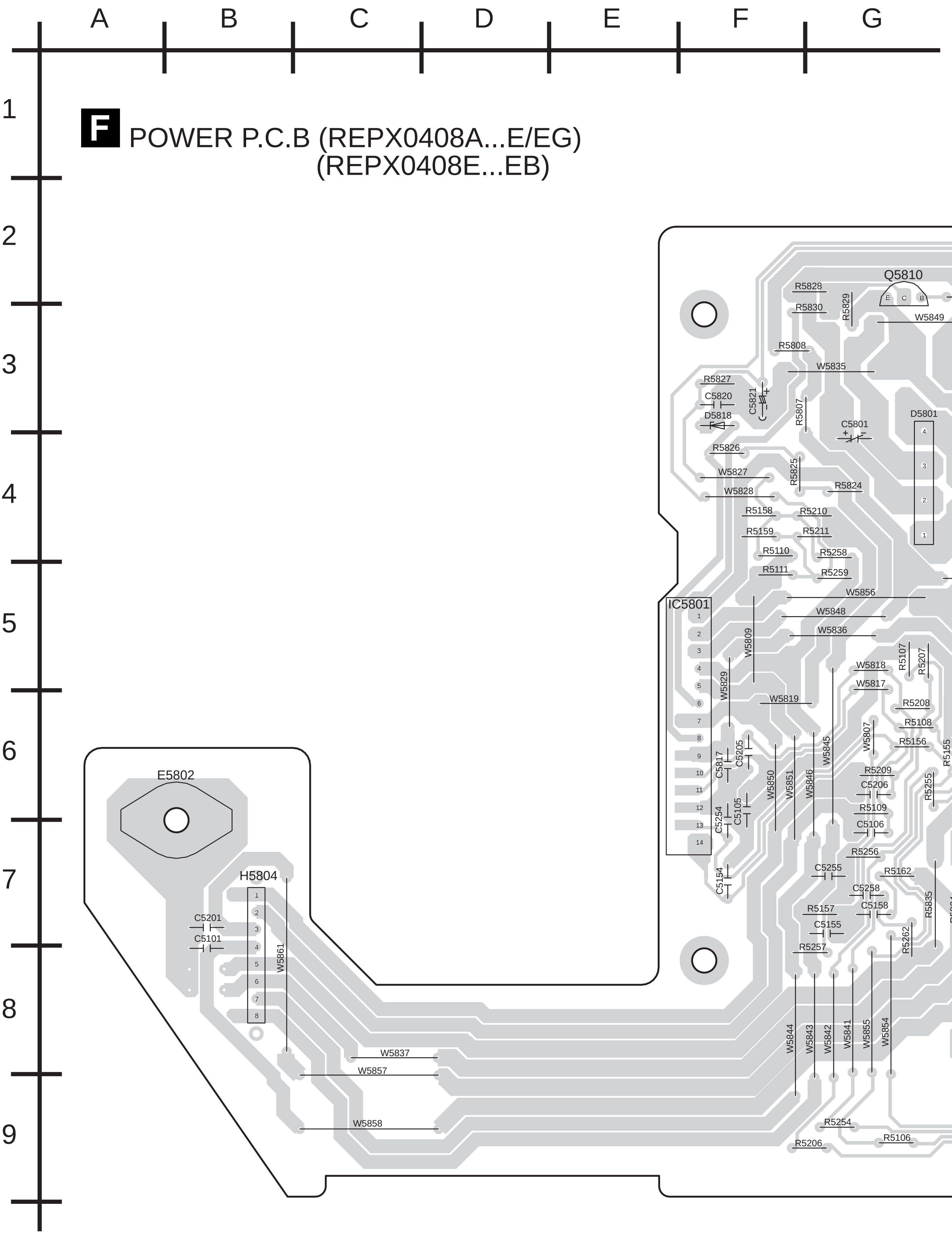
A B C D E F G

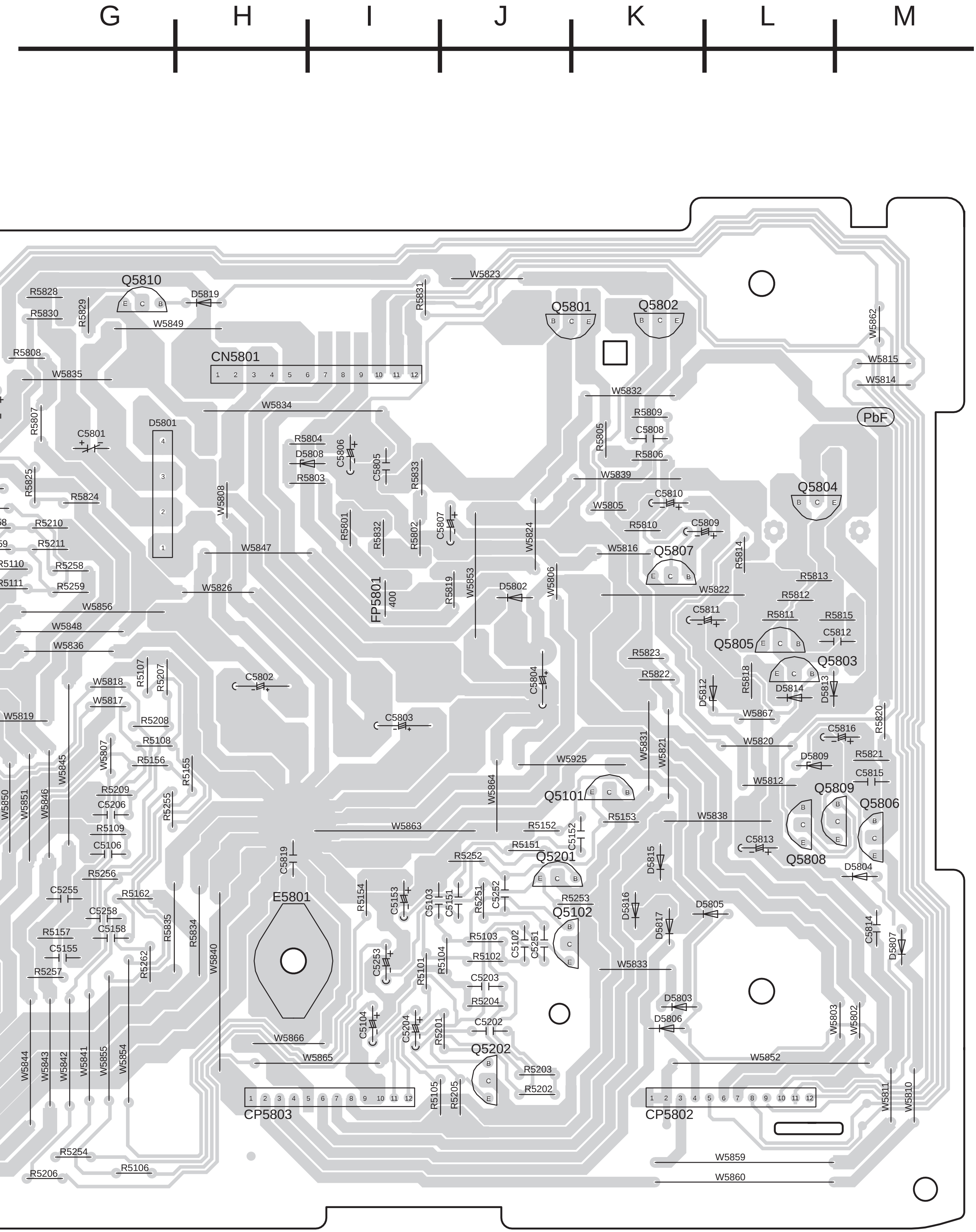
1 2 3 4 5 6 7 8 9

C PANEL P.C.B (REPX0409A)


FL601
C621
R653
R652
R671
R670
C622
C657
R617
Q611
CN602
W25
W24
W26
W18
C632
Q601
W17
W10
R623
R624
W20
W16
W15
W14
W13
W12
W11
W31
W19
R625
Q602
IC601
W6
W33
R626
R627
R628
C626
C625
C627
C628
C629
R629
C631
C634
D601
R621
R622
C623
C624
CN601/
WR601
W1
C638
E602
R618
W28
W27
C633
W9
C630
C604
W8
W7
Z602
R619
W22
W23
W21
W2
W3
R644
C603
R645
W5
Q603
SENSOR
W29
S602
ADV_SUR
PbF
R601
S611
RE-MASTER
W4
R615
W30
R602
R603
R636
R635
D614
D617
R604
D611
D612
D613
R631
R632
R605
D620
R606
R616
S616
TAPE
S615
STOP
S614
DVD/CD
S613
TUNER/AUX
D618
R638
R637
R610
R608
R609
R607
R643
S617
REC
D616
C602
C601
VR601
D619
R634
R633
R613
R611
R614
R612
W32
E601
S608
POWER
S603
OPEN/CLOSE
S604
DISC_5
S605
DISC_4
S606
DISC_3
S607
DISC_2
S618
DISC_1
S610
DISC_CHANGE
S609
DISC_CHECK
VOLUME

F POWER P.C.B (REPX0408A...E/EG)
(REPX0408E...EB)

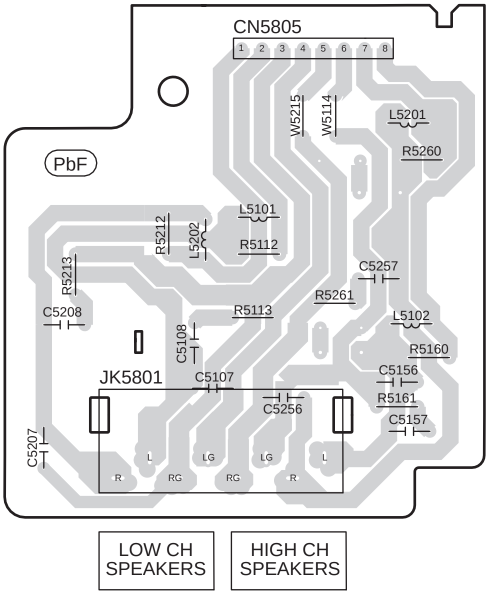

A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
Q5810
E C B
R5828
R5830
R5829
W5849
R5808
W5835
R5827
C5820
C5821
D5818
R5807
C5801
D5801
R5826
R5825
W5827
R5824
W5828
R5158
R5210
R5159
R5211
R5110
R5258
R5111
R5259
W5856
IC5801
W5848
W5836
W5809
R5107
R5207
W5818
W5829
W5817
W5819
R5208
R5108
W5807
R5156
R5155
C5817
C5205
W5845
R5209
C5206
W5850
W5851
W5846
R5255
R5109
C5254
C5105
C5106
R5256
E5802
H5804
C5255
R5162
C5154
C5258
C5201
R5157
C5158
R5835
C5101
C5155
R5262
W5861
R5257
W5844
W5843
W5842
W5841
W5855
W5854
W5837
W5857
W5858
R5254
R5106
R5206


G
H
I
J
K
L
M
Q5810
D5819
R5828
R5830
R5829
W5849
W5823
R5831
Q5801
Q5802
W5862
R5808
W5835
CN5801
W5815
W5814
W5832
W5834
PbF
R5807
C5801
D5801
R5804
D5808
C5806
C5805
R5809
C5808
R5805
R5806
R5825
R5803
R5833
W5839
W5808
R5824
C5810
Q5804
W5805
R5210
C5807
R5801
R5832
R5802
W5824
R5810
C5809
R5211
W5847
W5816
Q5807
R5814
R5110
R5258
R5813
FP5801
400
R5819
W5853
D5802
W5806
W5822
R5111
R5259
W5826
R5812
C5811
R5811
R5815
W5856
W5848
Q5805
C5812
W5836
R5823
Q5803
R5107
R5207
C5804
C5802
W5818
R5822
D5812
R5818
D5814
D5813
W5817
W5819
R5208
C5803
W5867
C5816
R5820
R5108
W5831
W5821
W5820
W5807
R5156
W5925
D5809
R5821
W5845
R5155
C5815
W5812
Q5809
Q5806
R5209
W5864
Q5101
W5850
W5851
W5846
C5206
R5255
R5152
C5152
R5153
W5838
R5109
W5863
Q5808
C5106
R5151
C5813
C5819
R5252
Q5201
D5815
D5804
R5256
C5255
R5162
E5801
R5154
C5153
C5103
C5151
R5251
C5252
R5253
D5816
D5805
C5258
Q5102
C5158
R5157
R5835
R5834
D5817
C5814
D5807
C5155
W5840
R5103
C5102
C5251
R5262
R5102
W5833
R5257
C5253
R5104
R5101
C5203
D5803
R5204
C5104
C5204
R5201
C5202
D5806
W5803
W5802
W5866
Q5202
W5865
W5852
W5844
W5843
W5842
W5841
W5855
W5854
R5203
R5202
R5105
R5205
W5811
W5810
CP5803
CP5802
1
2
3
4
5
6
7
8
9
10
11
12
R5254
W5859
R5106
R5206
W5860
E
C
B

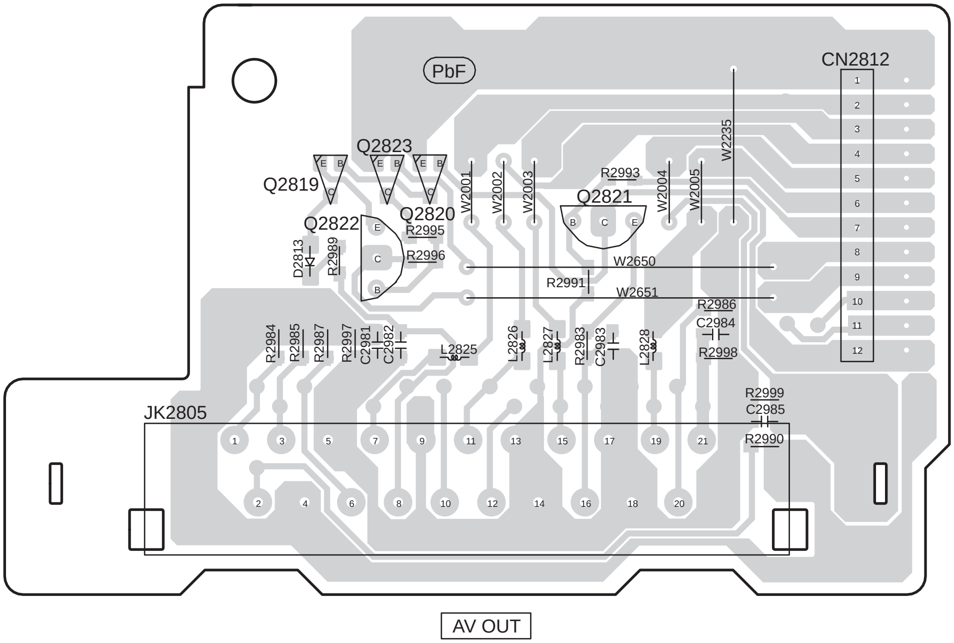
A B C D E F G

1 2 3 4 5 6 7 8 9

D SPEAKER P.C.B (REPX0408A...E/EG)
(REPX0408E...EB)


CN5805
1 2 3 4 5 6 7 8
W5215
W5114
L5201
R5260
PbF
L5101
R5212
L5202
R5112
R5213
C5257
R5261
R5113
L5102
C5208
C5108
R5160
JK5801
C5107
C5156
C5256
R5161
C5157
C5207
L LG LG L
R RG RG R
LOW CH SPEAKERS
HIGH CH SPEAKERS

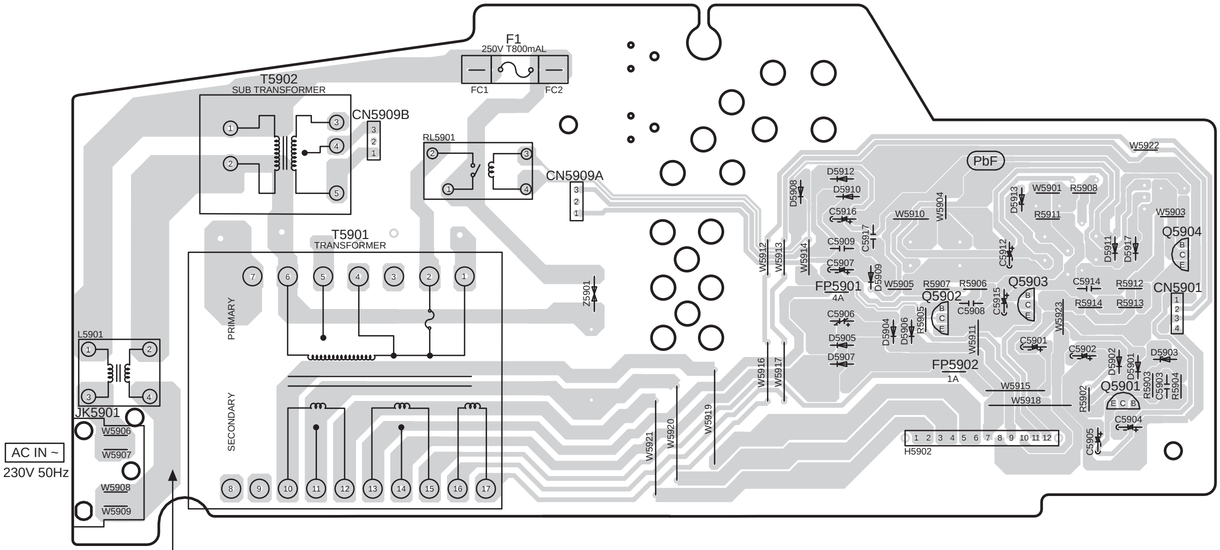
E SCART P.C.B (REPX0410A)


PbF
CN2812
1 2 3 4 5 6 7 8 9 10 11 12
W2235
Q2823
Q2819
E B E B E B
C C C
W2001
W2002
W2003
R2993
W2004
W2005
Q2821
B C E
Q2820
Q2822
E C B
R2995
R2996
D2813
R2989
W2650
R2991
W2651
R2986
C2984
R2998
R2984
R2985
R2987
R2997
C2981
C2982
L2825
L2826
L2827
R2983
C2983
L2828
R2999
C2985
R2990
JK2805
1 3 5 7 9 11 13 15 17 19 21
2 4 6 8 10 12 14 16 18 20
AV OUT

A B C D E F G

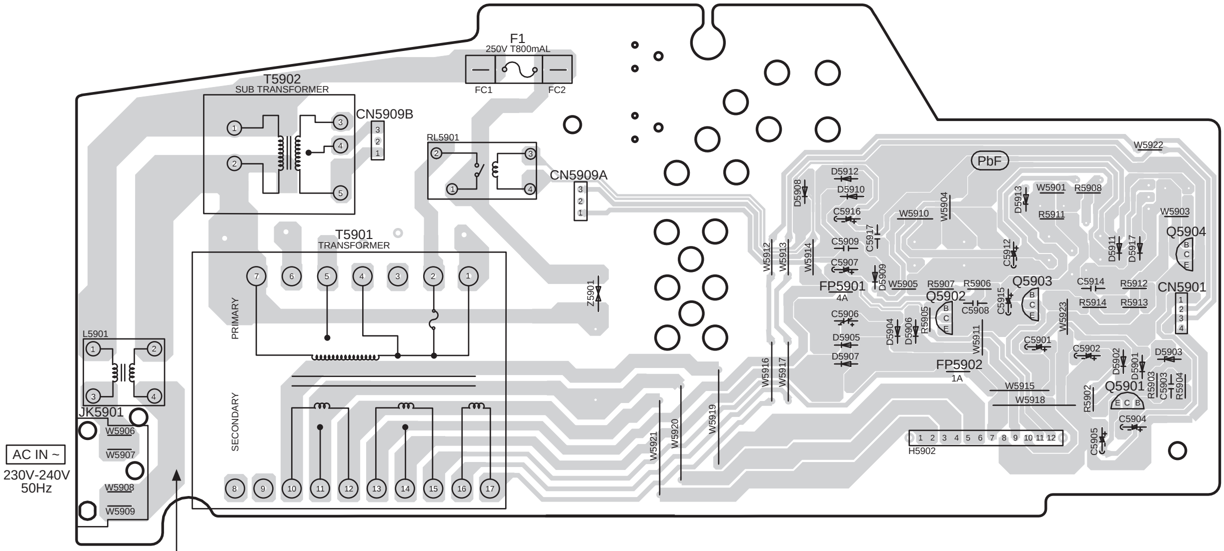
1 2 3 4 5 6 7 8 9

G TRANSFORMER P.C.B (REPX0408A...E/EG)


F1
250V T800mAL
FC1
FC2
T5902
SUB TRANSFORMER
CN5909B
RL5901
CN5909A
T5901
TRANSFORMER
PRIMARY
SECONDARY
Z5901
L5901
JK5901
AC IN ~
230V 50Hz
W5906
W5907
W5908
W5909
W5912
W5913
W5914
W5916
W5917
W5919
W5920
W5921
PbF
W5922
D5912
D5910
D5908
C5916
C5917
C5909
C5907
D5909
FP5901
4A
W5910
W5904
W5905
R5907
R5906
Q5902
C5908
C5915
Q5903
D5913
W5901
R5908
R5911
C5912
W5903
Q5904
D5911
D5917
C5914
R5912
R5914
R5913
CN5901
C5906
D5905
D5907
D5904
D5906
R5905
W5911
W5923
C5901
C5902
D5902
D5901
D5903
FP5902
1A
W5915
W5918
R5902
Q5901
R5903
C5903
R5904
C5904
C5905
H5902
1 2 3 4 5 6 7 8 9 10 11 12

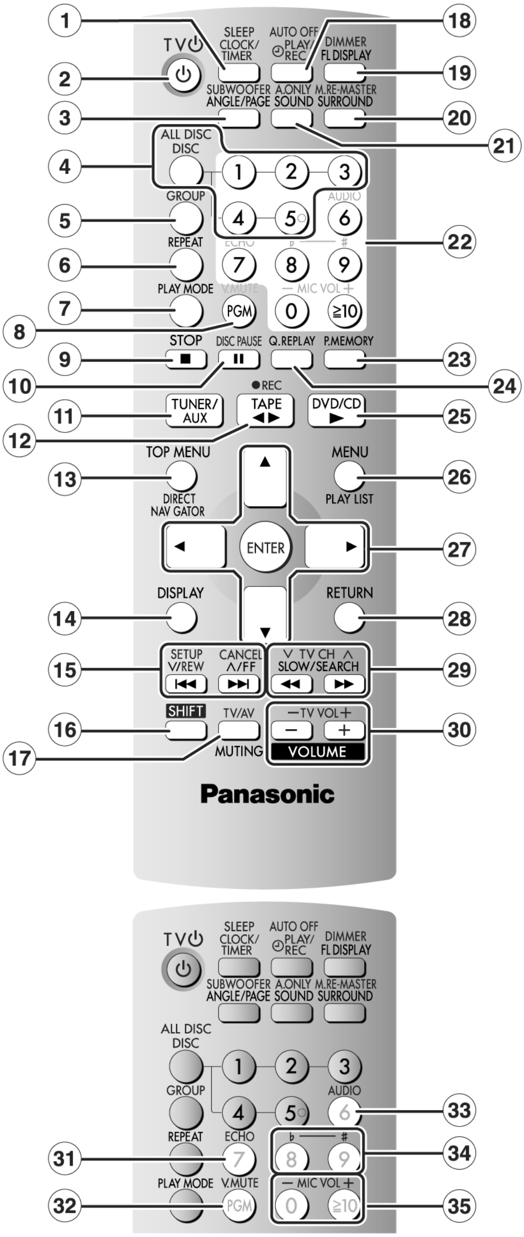
CAUTION
RISK OF ELECTRIC SHOCK
AC VOLTAGE LINE.
PLEASE DO NOT TOUCH THIS P.C.B

G TRANSFORMER P.C.B (REPX0408E...EB)


F1
250V T800mAL
FC1
FC2
T5902
SUB TRANSFORMER
CN5909B
RL5901
CN5909A
T5901
TRANSFORMER
PRIMARY
SECONDARY
Z5901
L5901
JK5901
AC IN ~
230V-240V
50Hz
W5906
W5907
W5908
W5909
W5912
W5913
W5914
W5916
W5917
W5919
W5920
W5921
PbF
W5922
D5912
D5910
D5908
C5916
C5917
C5909
C5907
D5909
FP5901
4A
W5910
W5904
W5905
R5907
R5906
Q5902
C5908
C5915
Q5903
D5913
W5901
R5908
R5911
C5912
W5903
Q5904
D5911
D5917
C5914
R5912
R5914
R5913
CN5901
C5906
D5905
D5907
D5904
D5906
R5905
W5911
W5923
C5901
C5902
D5902
D5901
D5903
FP5902
1A
W5915
W5918
R5902
Q5901
R5903
C5903
R5904
C5904
C5905
H5902
1 2 3 4 5 6 7 8 9 10 11 12

CAUTION
RISK OF ELECTRIC SHOCK
AC VOLTAGE LINE.
PLEASE DO NOT TOUCH THIS P.C.B

Remote control


1
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11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
TV⏻
SLEEP
CLOCK/TIMER
AUTO OFF
◴PLAY/REC
DIMMER
FL DISPLAY
SUBWOOFER
ANGLE/PAGE
A.ONLY
SOUND
M.RE-MASTER
SURROUND
ALL DISC
DISC
GROUP
REPEAT
PLAY MODE
AUDIO
ECHO
♭
#
V.MUTE
PGM
– MIC VOL +
STOP
DISC PAUSE
Q.REPLAY
P.MEMORY
●REC
TUNER/AUX
TAPE
DVD/CD
TOP MENU
DIRECT NAVIGATOR
MENU
PLAY LIST
ENTER
DISPLAY
RETURN
SETUP
∨/REW
CANCEL
∧/FF
∨ TV CH ∧
SLOW/SEARCH
SHIFT
TV/AV
MUTING
–TV VOL+
VOLUME
Panasonic

① **Clock/timer, Sleep timer button [CLOCK/TIMER, SLEEP]**

② **Standby/on, TV standby/on switch [⏻, TV ⏻]**

③ **Angle/Page, Subwoofer button [ANGLE/PAGE, SUBWOOFER]**

④ **Disc select, All disc button [DISC, ALL DISC], Disc buttons [1–5]**

⑤ **Group button [GROUP]**

⑥ **Repeat button [REPEAT]**

⑦ **Play mode select button [PLAY MODE]**

⑧ **Program button [PGM]**

⑨ **Stop button [■ STOP]**

⑩ **Disc pause button [❚❚ DISC PAUSE]**

⑪ **Tuner/aux button [TUNER/AUX]**

⑫ **Tape play/direction, Record button [◀ ▶ TAPE, ●REC]**

⑬ **Top menu, Direct navigator button [TOP MENU, DIRECT NAVIGATOR]**

⑭ **Display button [DISPLAY]**

⑮ **Disc skip, tape fast-forward/rewind, preset channel select, time adjust, Setup, Cancel buttons [⏮ ⏭, ∨/REW, ∧/FF, SETUP, CANCEL]**

⑯ **Shift button [SHIFT]**
To use functions labelled in orange:
While pressing [SHIFT], press the corresponding button.

⑰ **Muting, TV/AV button [MUTING, TV/AV]**

⑱ **Play timer/record timer, Auto off button [◴PLAY/REC, AUTO OFF]**

⑲ **FL display, Dimmer button [FL DISPLAY, DIMMER]**

⑳ **Surround, Multi re-master button [SURROUND, M.RE-MASTER]**

㉑ **Sound, Audio only button [SOUND, A.ONLY]**

㉒ **Numbered buttons [0 – 9, ≧10]**

㉓ **Position memory button [P.MEMORY]**

㉔ **Quick replay button [Q.REPLAY]**

㉕ **DVD/CD play button [▶ DVD/CD]**

㉖ **Menu, Playlist button [MENU, PLAY LIST]**

㉗ **Cursor buttons [▲, ▼, ◀, ▶], Enter button [ENTER]**

㉘ **Return button [RETURN]**

㉙ **Slow/search, tuning, character skip buttons [◀◀, ▶▶ SLOW/SEARCH]**
These buttons also have the following functions.
[◀◀, ▶▶]: TV channel select buttons [TV CH ∨, ∧].

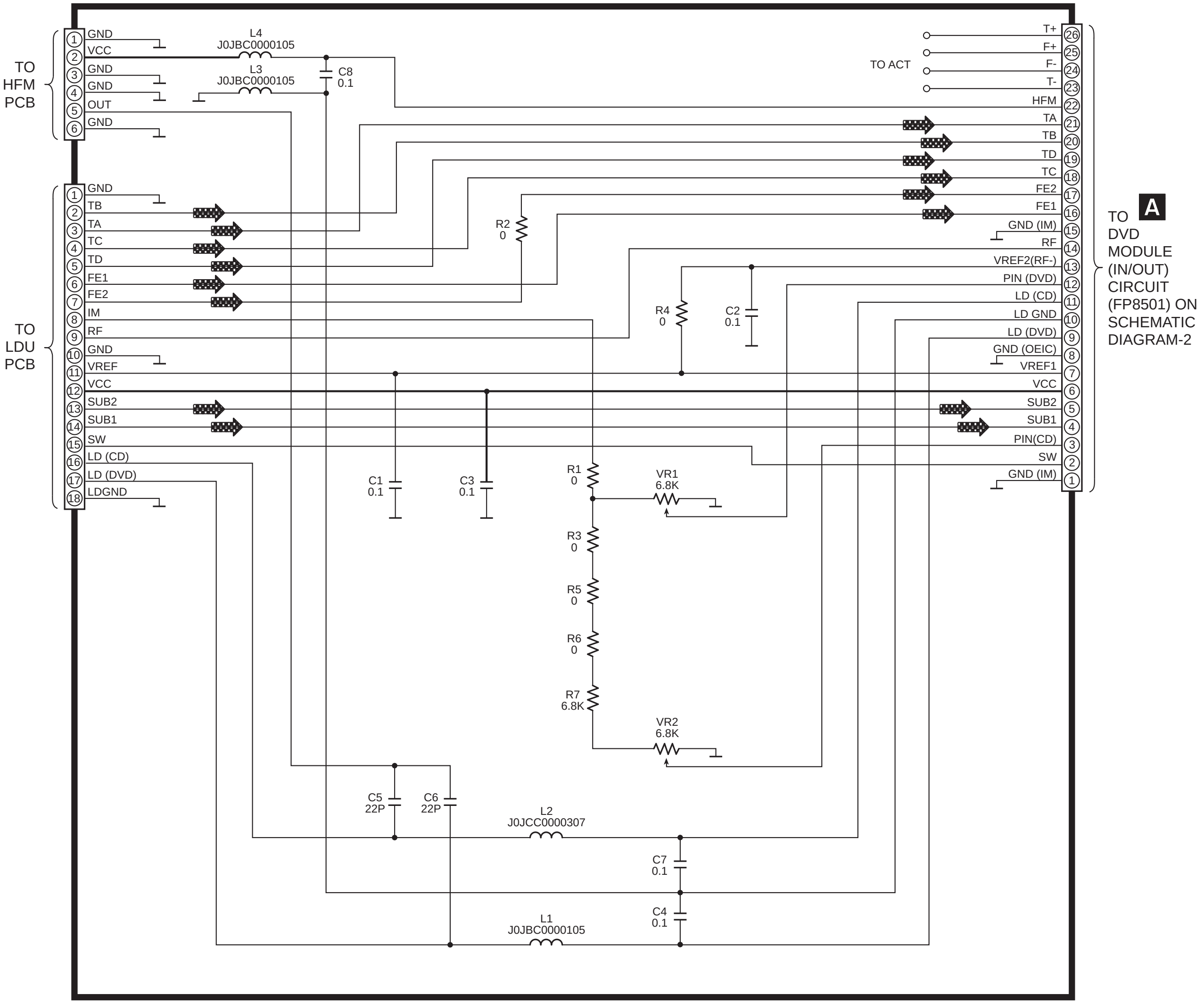
㉚ **Volume buttons [– , + , VOLUME]**
These buttons also have the following functions.
[– , +]: TV volume buttons [TV VOL –, +]

SCHEMATIC DIAGRAM - 1

OPTICAL PICKUP UNIT CIRCUIT

——— : +B SIGNAL LINE

➡ : CD-DA SIGNAL LINE


TO HFM PCB
① GND
② VCC
③ GND
④ GND
⑤ OUT
⑥ GND
L4 J0JBC0000105
L3 J0JBC0000105
C8 0.1
TO LDU PCB
① GND
② TB
③ TA
④ TC
⑤ TD
⑥ FE1
⑦ FE2
⑧ IM
⑨ RF
⑩ GND
⑪ VREF
⑫ VCC
⑬ SUB2
⑭ SUB1
⑮ SW
⑯ LD (CD)
⑰ LD (DVD)
⑱ LDGND
TO ACT
T+ ㉖
F+ ㉕
F- ㉔
T- ㉓
HFM ㉒
TA ㉑
TB ⑳
TD ⑲
TC ⑱
FE2 ⑰
FE1 ⑯
GND (IM) ⑮
RF ⑭
VREF2(RF-) ⑬
PIN (DVD) ⑫
LD (CD) ⑪
LD GND ⑩
LD (DVD) ⑨
GND (OEIC) ⑧
VREF1 ⑦
VCC ⑥
SUB2 ⑤
SUB1 ④
PIN(CD) ③
SW ②
GND (IM) ①
TO A DVD MODULE (IN/OUT) CIRCUIT (FP8501) ON SCHEMATIC DIAGRAM-2
R2 0
R4 0
C2 0.1
C1 0.1
C3 0.1
R1 0
VR1 6.8K
R3 0
R5 0
R6 0
R7 6.8K
VR2 6.8K
C5 22P
C6 22P
L2 J0JCC0000307
C7 0.1
C4 0.1
L1 J0JBC0000105